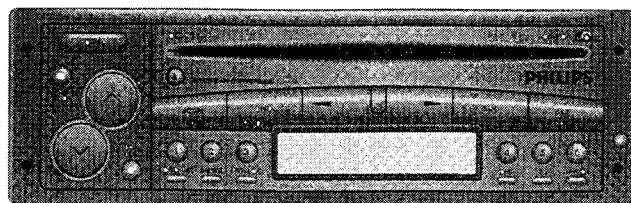


Service  
Service  
Service



For repair information of the CDM-9 Mechanism see  
Service Manual of CDM-9 MOD-4 4822 725 23506.

# Service Manual

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12 V 



**CLASS 1  
LASER PRODUCT**

3122 110 03420



# PHILIPS

## Technical Specifications

### General

Power Supply	: 10.5 - 16.0V
Quiescent Current	: 1mA
Fuse	: 10A (DC942) 7.5A (DC932)

### Radio

FM	: 87.5 - 108MHz, grid : 100kHz (manual/search)
LW	: 144 - 288kHz, grid : 1kHz (manual/search)
MW	: 522 - 1602kHz, grid : 9kHz (manual/search)
SW	: 5950 - 6250MHz, grid : 1kHz (manual/search)
IF	: 10.7MHz
Search Tuning Time	: 5 seconds (AM/FM)
$\alpha$ - 3dB	: $5 \pm 2\mu V$
FM sensitivity for 30dB S/N	: $\leq 5\mu V$
MW sensitivity for 26dB S/N	: $\leq 150\mu V$
LW sensitivity for 26dB S/N	: $\leq 190\mu V$
SW sensitivity for 26dB S/N	: $\leq 125\mu V$
SNR FM	: $\geq 56dB$
SNR AM	: $\geq 46dB$

### CDM9

Frequency	: 30 - 16kHz
SNR	: 75dB
Distortion	: 0.5% at 1kHz
Channel crosstalk	: 30dB at 1kHz

### Amplifier

Output Power (D=10%)	: $4 \times 7W \pm 1dB/4\Omega$ (DC932) $4 \times 20W \pm 1dB/4\Omega$ (DC942)
Loudness	: $\pm 6dB$ at 60Hz
Bass	: $\pm 20dB$ at 60Hz
Treble	: $\pm 8dB$ at 10kHz
Channel Separation	: $\geq 40dB$
Line out	: $500mV \pm 2dB$

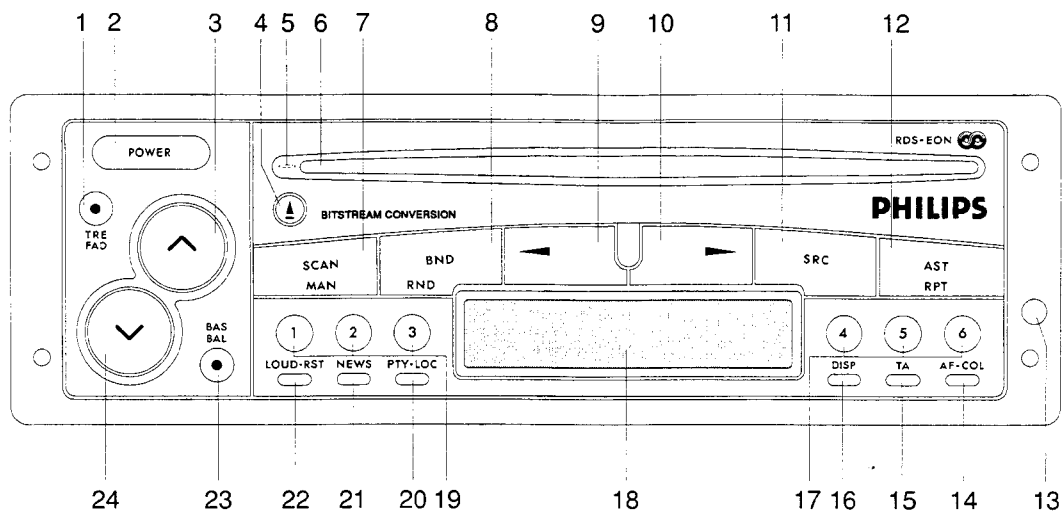
### WARNING



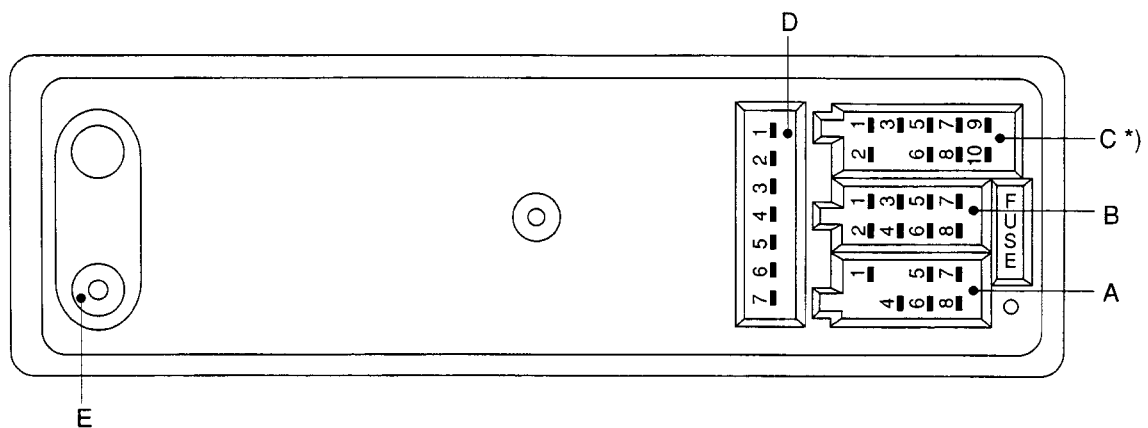
All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.  
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

## Controls

- |                                 |   |
|---------------------------------|---|
| 1. Treble Fader                 | Brief press : Adjustment with $\wedge$ and $\vee$<br>Long press : Adjustment with $\wedge$ and $\vee$   |
| 2. Power                        | Set on/off  |
| 3. $\wedge$                     | Audio Mode Control Up   |
| 4. CD Eject                     |   |
| 5. CD Opening Indicator         |   |
| 6. CD Opening                   |   |
| 7. Scan/Manual Radio mode       | Brief press : Search and tuned for 10 sec on the preset in the current waveband.<br>Long press : For manual tuning with $\wedge$ and $\vee$           |
| CD mode                         | Select and play each track for 10 sec.  |
| 8. Band/Random Radio mode       | Select waveband   |
| CD mode                         | Play the disc in a random order   |
| 9. Button Up                    |   |
| 10. Button Down                 |   |
| 11. Source                      | Brief press : Source select<br>Long press : To enter 'INIT' mode  |
| 12. Autostore/Repeat Radio mode | Automatically store the best 6 station on the current waveband (except SW)  |
| CD Mode                         | Repeat Function   |
| 13. Button Release              |   |
| 14. Alternative Freq.           | Brief press : Set Continuously check a list of alternating frequency for the tuned radio frequency system and continuously select the best frequency. |
| Colour                          | Long press : To change the colour   |
| 15. Traffic Announcement        | Traffic announcement on/off   |
| 16. Display                     |   |
| 17. Preset 4 - 6                |   |
| 18. Liquid Crystal Display      |   |
| 19. Preset 1 - 3                |   |
| 20. Program Type                | Long press : Set can detect and select the type of programme being transmitted.   |
| Local                           | Brief press : Radio search for strong station and then weak station.  |
| 21. News                        | Priority given to news bulletins  |
| 22. Loudness                    | Brief press : To increase the high and low notes at low volume setting.   |
| Audio Reset                     | Long press : To reset the treble, bass, fader and balance setting to their mid-position.  |
| 23. Bass                        | Brief press : Adjustment with $\wedge$ and $\vee$   |
| Balance                         | Long press : Adjustment with $\wedge$ and $\vee$  |
| 24. $\vee$                      | Audio Mode Control Down   |



D



## Connections

A1 : Telephone Mute  
 A4 : Permanent Plus  
 A5 : Auto Antenna  
 A6 : External Illumination  
 A7 : Ignition on-off  
 A8 : Power GND

B1 : Rear Right +  
 B2 : Rear Right Return -  
 B3 : Front Right +  
 B4 : Front Right Return -  
 B5 : Front Left +  
 B6 : Front Left Return -  
 B7 : Rear Left +  
 B8 : Rear Left Return -

C1 : D2B GND  
 C2 : D2B+  
 C3 : D2B-  
 C5 : CDCC Supply  
 C6 : GND  
 C7 : Switched +  
 C8 : Line-In Right  
 C9 : Line-in Left  
 C10 : Line-in Gnd

D1 : Remote Plus  
 D2 : Booster Detect  
 D3 : Line-out GND  
 D4 : Line-out FR  
 D5 : Line-out RR  
 D6 : Line-out FL  
 D7 : Line-out RL

E : Aerial Connection

\*) Block C only applicable for DC942



## **Service Hints**

### **Detachable Front unit**

The detachable front unit is part of the car Radio. Hence it is necessary that the customer always bring the complete set (with detachable unit) when service is needed. This statement was also printed in the Instruction For Use.

### **Power IC stage**

It is necessary to remove the main pcb from the frame assembly if you need to change any power IC stage component. See Tuner Module IC91 Grounding (Figure 1) before removing frame assembly.

### **Software**

The software of the set is splitted into two Parts : one in the front microprocessor and the other one in the main microprocessor. Make sure when changing a front or main microprocessor that both main and front are software compatible.

Software compatibility between front and main microprocessor can be verified by reading the 'checksum' of the microprocessor (main and front). A table stating the different checksum related to the software release and compatibility will be issued regularly in service newsletters.

### **To read the 'checksum' of the microprocessor (main and front):**

Power on the set, press simultaneously the preset 1 and preset 6 keys. Two 4 digits number appear on the display :

first 4 digits : checksum of main microprocessor

second 4 digits : checksum of the front microprocessor

You will have to wait for about 5 seconds before the set goes back to the normal mode. Power off and on the set will also reset the set to the normal mode.

### **General**

Switch off power supply before connect and disconnect CDM 9 module and set to prevent short circuit.

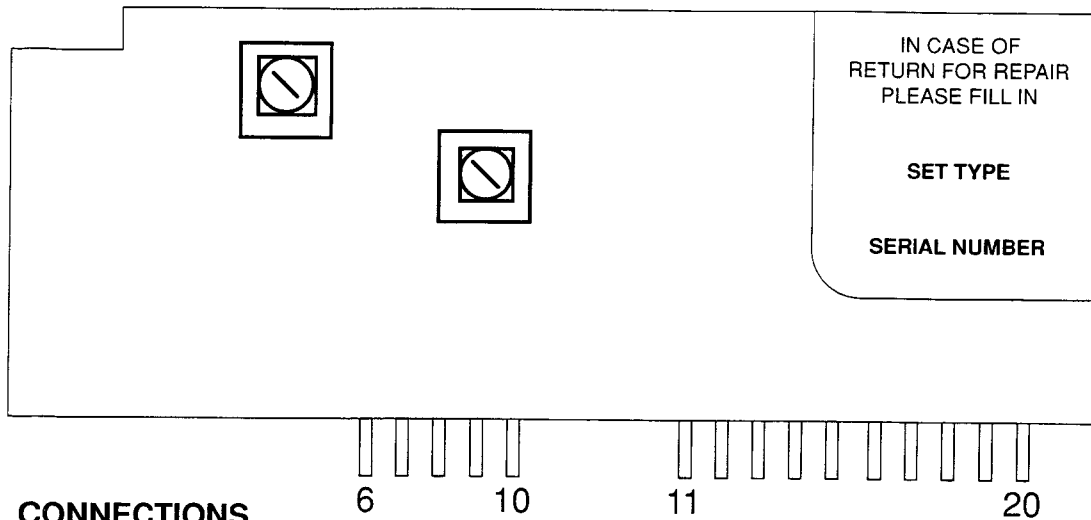
Do not try to load or eject when CDM 9 is in upside-down position, only play functions are possible.

Extension cables for CDM 9 are not available as service parts. You can build these by using the coded cable assy, item 21 (4822 321 62188).

For more information about the RDS-feature use the computerbased training course RDS, which is available at Philips Consumer Service.

**Contact** Philips Consumer Service  
I.S.C. Training  
Building SBP 6  
P.O. Box 218  
5600 MD Eindhoven  
The Netherlands  
Tel : 31-40-736294  
Fax : 31-40-733553  
Telex : NLMEVAB

# TUNER MODULE IC 91



## CONNECTIONS

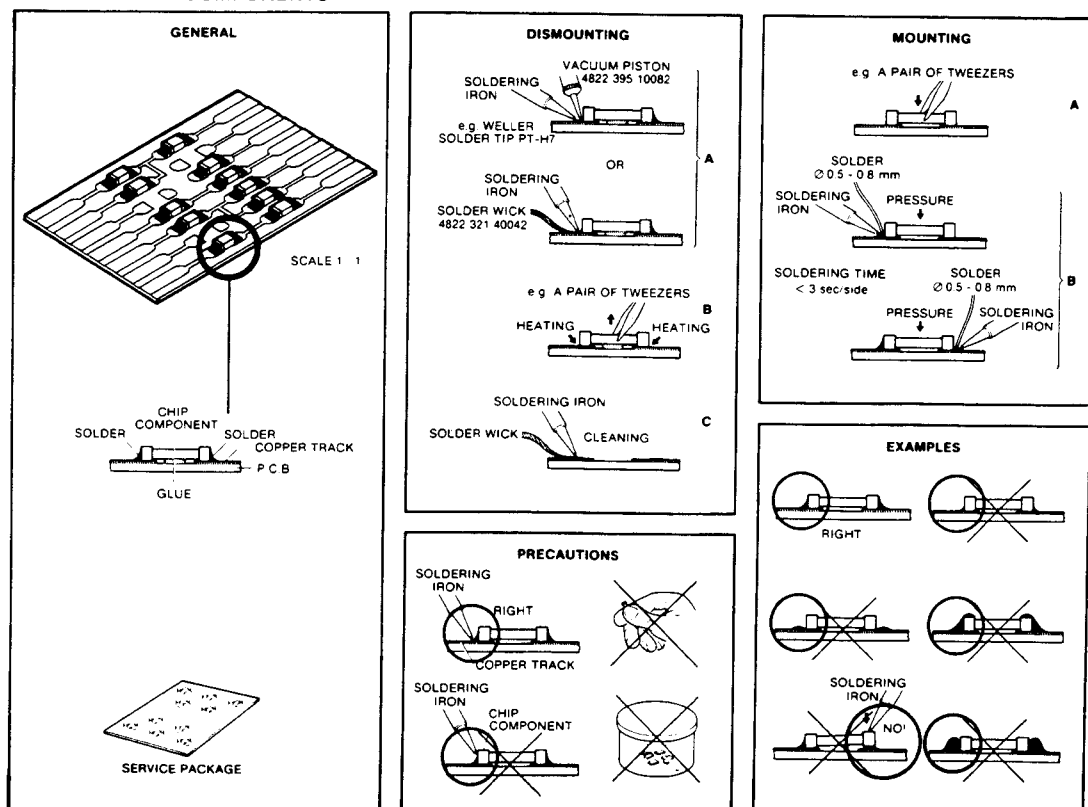
1 - 5 NO CONNECTIONS  
 6 INLOCK\_DET  
 7 VCC 8.5V  
 8 V\_REFERENCE  
 9 V\_REFERENCE  
 10 REF\_LEVEL  
 11 MPX\_RDS  
 12 MULTIPATH

13 SDA  
 14 SCL  
 15 PACS\_OFF  
 16 RADIO\_LEFT  
 17 RADIO\_RIGHT  
 18 GROUND  
 19 NO CONNECTION  
 20 NO CONNECTION

## DO NOT OPEN AND TRY TO REPAIR MODULE YOURSELF!

Send defective modules to Philips Consumer Service in Eindhoven, according to the Central Repair procedure.













































## HANDLING CHIP COMPONENTS



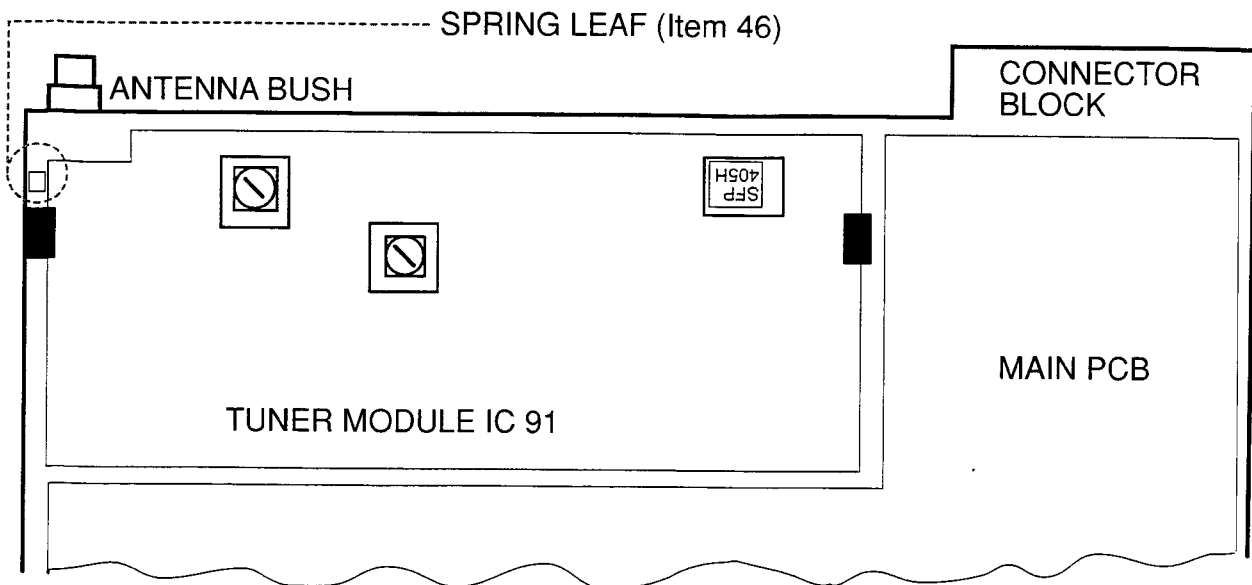
27 012C12

## CHECK TABLE

For more information see general information " General alignment procedures for car radio"

Check	SK				Setting of controls	
30 dB SNR	FM	93 MHz, 5 $\mu$ V $\Delta f = 22.5$ kHz f mod. = 1 kHz				 0 dB (775 mV)
		93 MHz, 5 $\mu$ V $\Delta f = 22.5$ kHz without mod.				 $\geq 30$ dB
26 dB SNR	MW	1053 kHz, 150 $\mu$ V 1 kHz, 30% AM				 0 dB (775 mV)
		1053 kHz, 150 $\mu$ V without mod.				 $\geq 26$ dB
26 dB SNR	LW	207 kHz, 190 $\mu$ V 1 kHz, 30% AM				 0 dB (775 mV)
		207 kHz, 190 $\mu$ V without mod.				 $\geq 26$ dB
26 dB SNR	SW	6100 kHz, 125 $\mu$ V 1 kHz, 30% AM				 0 dB (775 mV)
		6100 kHz, 125 $\mu$ V without mod.				 $\geq 26$ dB
SNR FM	FM	93 MHz, 1 mV $\Delta f = 22.5$ kHz f mod. = 400Hz				 0 dB (775 mV)
		93 MHz, 1 mV $\Delta f = 22.5$ kHz without mod.				 - 56 dB
SNR MW	MW	1053 kHz, 10mV 1 kHz, 30% AM				 0 dB (775 mV)
		1053 kHz, 10mV without mod.				 - 46 dB
SNR LW	LW	207 kHz, 10mV 1 kHz, 30% AM				 0 dB (775 mV)
		207 kHz, 10mV without mod.				 - 46 dB
$\alpha - 3$ dB	FM	93 MHz, 1 mV $\Delta f = 22.5$ kHz f mod. = 400 Hz				 0 dB (775 mV)
		93 MHz, 5 $\mu$ V $\Delta f = 22.5$ kHz f mod. = 400 Hz				 - 3 dB

## TUNER MODULE IC91 GROUNDING



Item 46 spring leaf serve as an electrical grounding for Tuner Module IC 91. It will **drop out** when you remove the frame assy . Remove spring leaf before removing frame assembly from the main pcb to prevent it from dropping out. It is necessary to assemble back the spring leaf after repair.

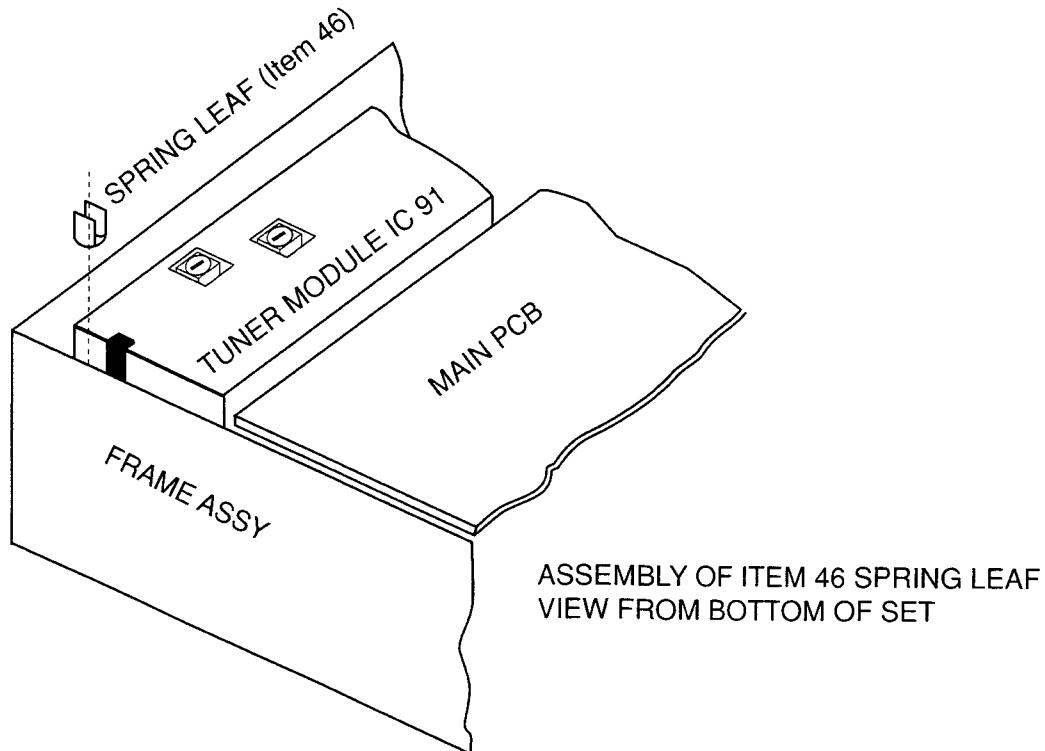


Figure 1

The diagram illustrates the functional blocks and interconnections of a CD player system, organized into three main sections: MAIN PCB, CD PCB, and FRONT PCB. A 1222 SLIDE-IN CONNECTOR BLOCK is shown on the right, providing external interfaces.

### MAIN PCB

**TUNER:** 1000 - IC91 MODULE

**RDS:** 7500 - SAA6579T, 7501 - LA2000, 7502 - TL074

**ILLUMINATION RHEOSTAT:** DISCRETE

**BLINKING LED:** DISCRETE

**SOFAC:** 7800 - TEA6320

**CLOCK:** 7706 - HEF4521BT

**MICRO-CONTROLLER:** 7700 - CE558

**EEPROM:** 7704 - ST24C16

**LINE-OUT:** DISCRETE

**FADER:** 7600 - MC14066BCP

**POWER:** 4X20W, 2X20W / 4X7W  
7602 - TDA7374, 7603 - TDA7374

**BAM INTERFACE:** 7705 - THICK FILM

**D2B INTERFACE:** 7707 - MSM6307GS

**WIRED REMOTE:** DISCRETE

**SDVC / TELEPHONE MUTE:** DISCRETE

**SUPPLY:** 7910 - TDA3602, 7921 - HEF40443T

### CD PCB

**COMPACT DISC:** 7000 - L2722, 7001 - TDA8808T/C3, 7100 - TCA0372DP1, 7101 - TDA8809T/C2, 7201 - MC68HC05C8, 7202 - HEF4053BT, 7302 - SAA7341, 7303 - MSM5165AL-12RS, 7400 - LM258D, 7500 - L2722

### FRONT PCB

**KEY SCAN / DISPLAY DRIVER:** 7702 - C528, 7710 - PCF8576T

**ILLUMINATION:** DISCRETE

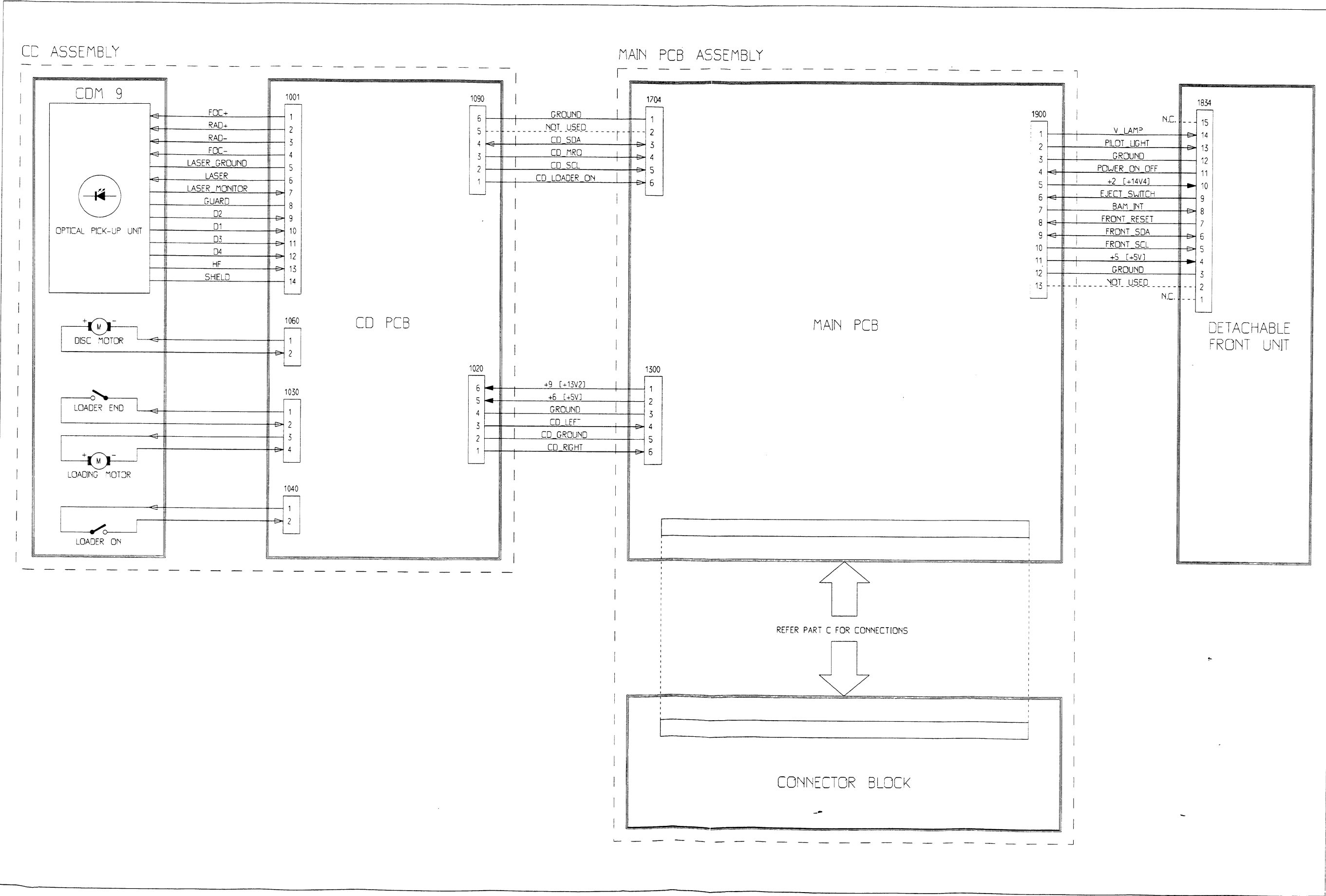
### Interconnections

- MAIN PCB to CD PCB:** 6 LINES
- CD PCB to FRONT PCB:** 6 LINES
- FRONT PCB to MAIN PCB:** 13 LINES

### External Interfaces (1222 SLIDE-IN CONNECTOR BLOCK)

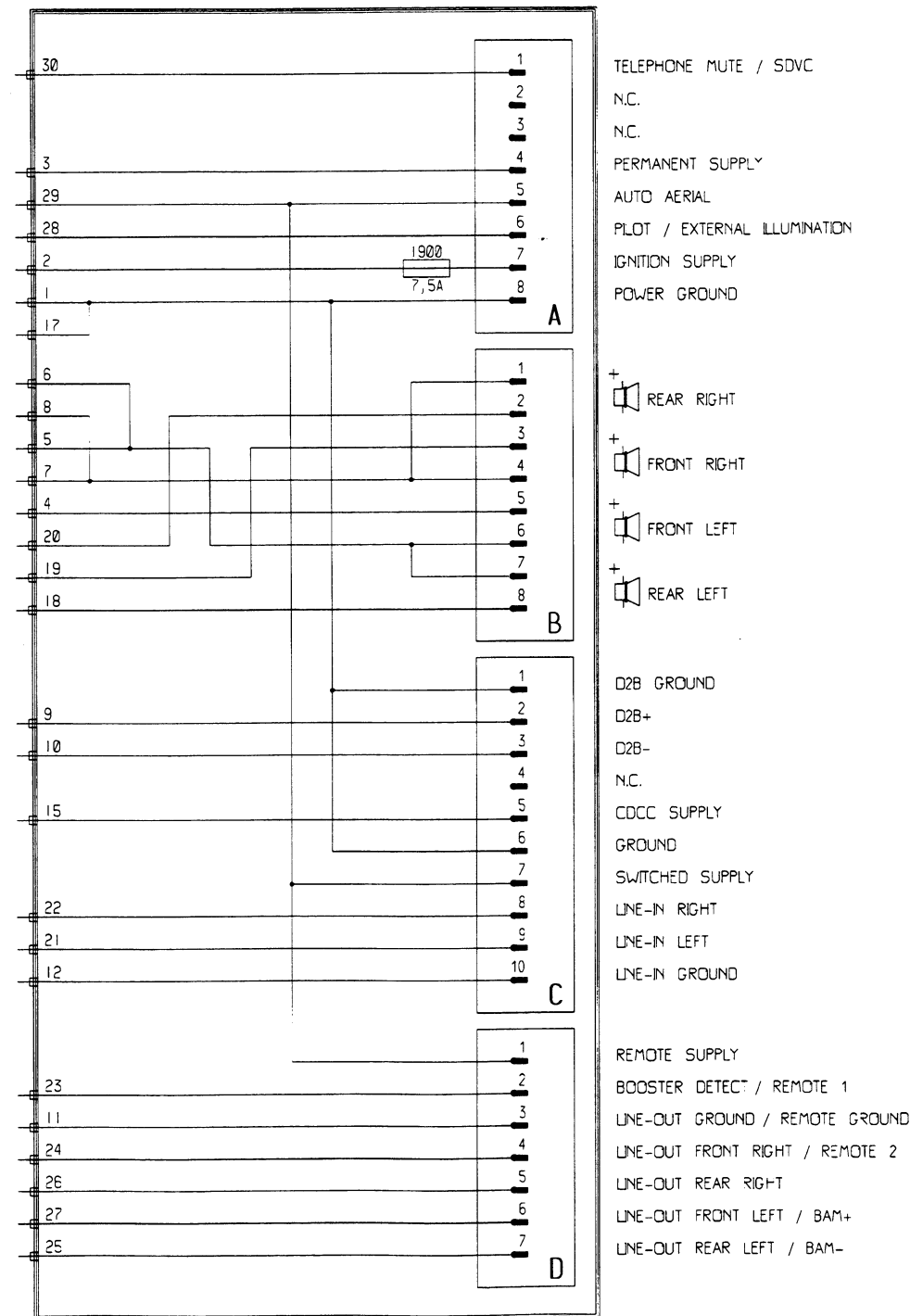
- LINE-IN
- DISCRETE
- POWER 4X20W
- POWER 2X20W / 4X7W
- BAM INTERFACE
- D2B INTERFACE
- WIRED REMOTE
- SDVC / TELEPHONE MUTE

PART B : WIRING DIAGRAM



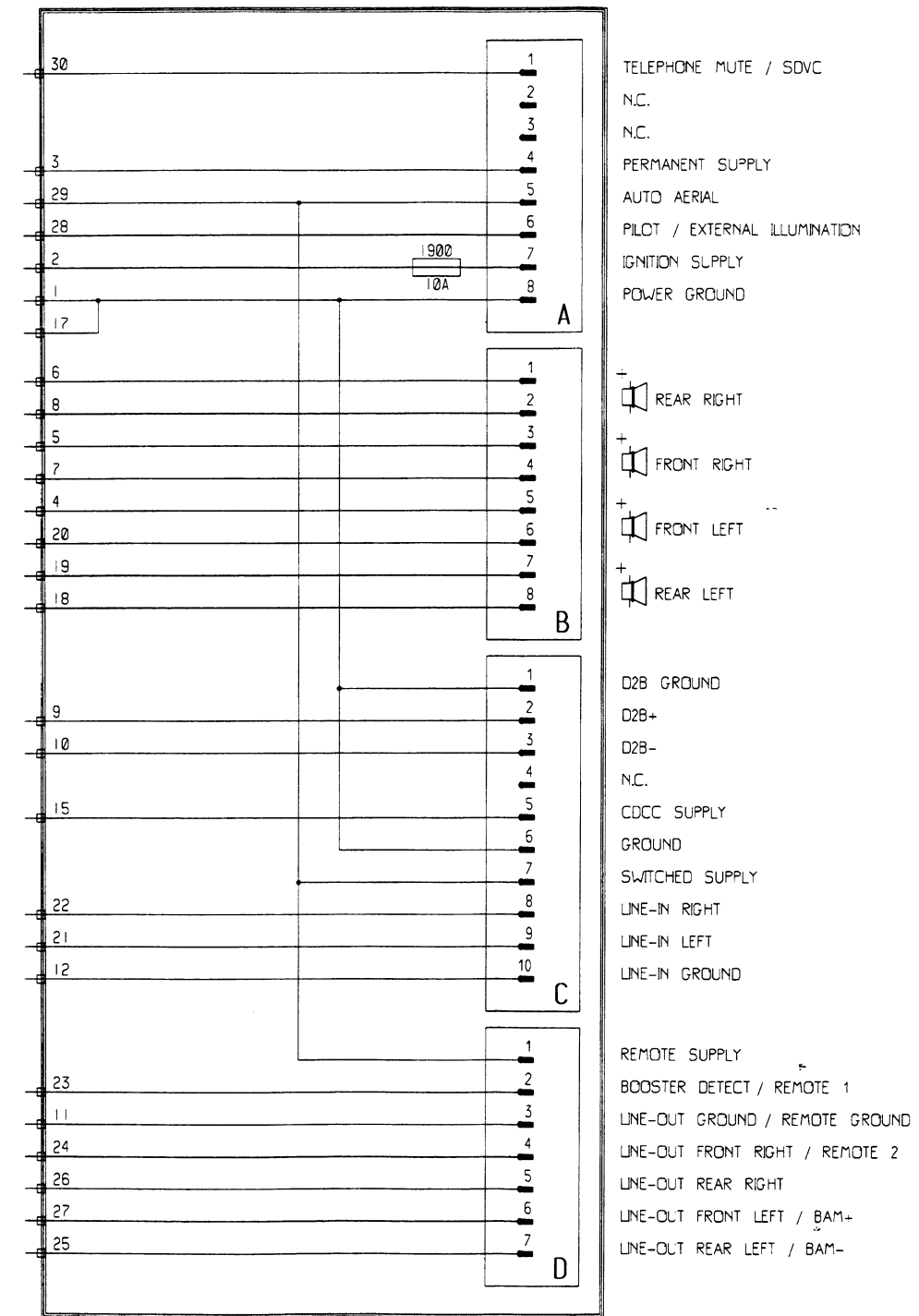
PART C : CONNECTOR BLOCK

DC932 4X7W / 2X20W CONNECTOR BLOCK



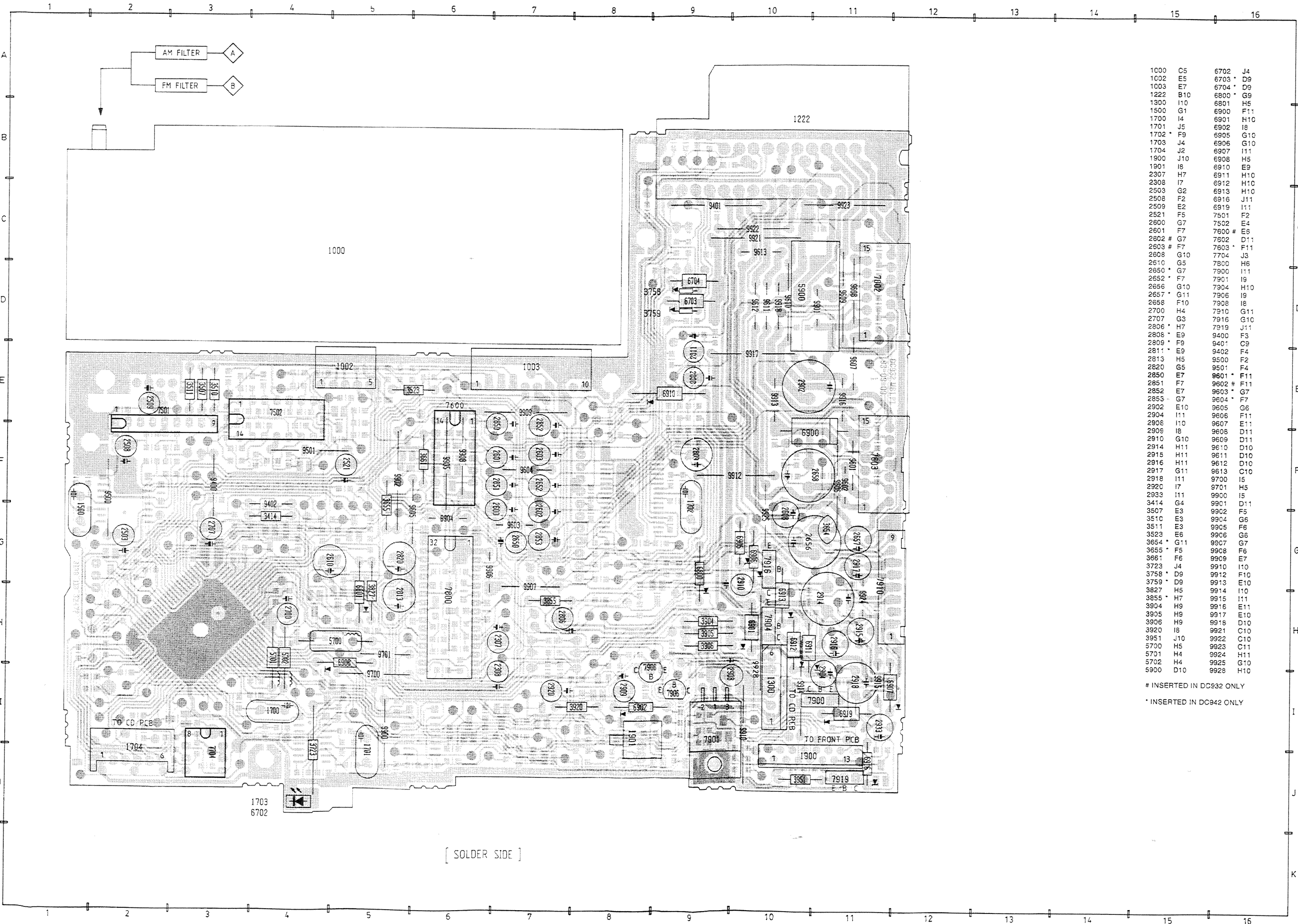
FOR DC932/00, DC932/31B (4X7W ONLY)

DC942 4X20W CONNECTOR BLOCK



FOR DC942/00 ONLY

MAIN BOARD (NON-CHIP)

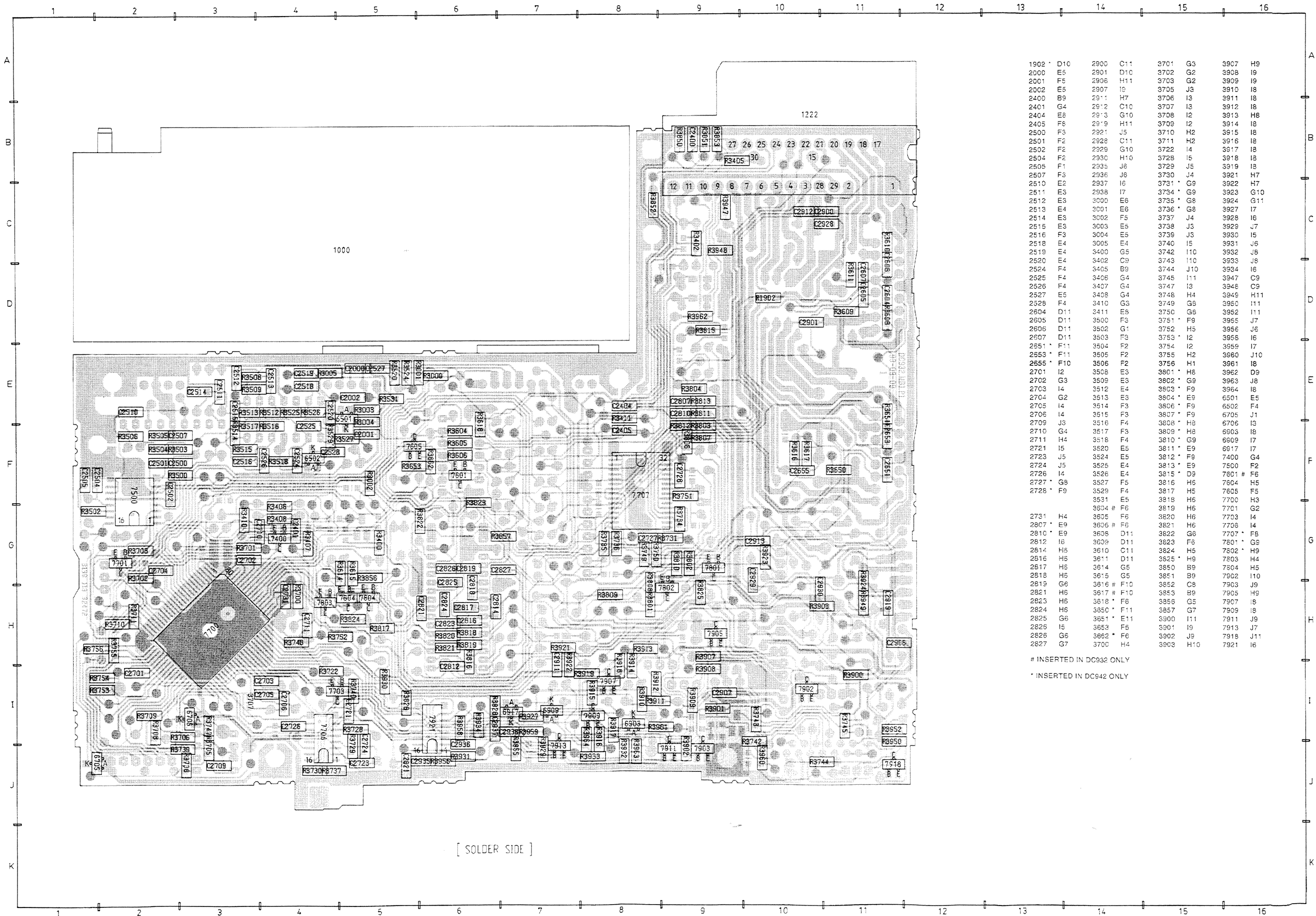


1000	C5	6702	J4
1002	E5	6703	D9
1003	E7	6704	D9
1222	B10	6800	G9
1300	I10	6801	H5
1500	G1	6900	F11
1700	I4	6901	H10
1701	J5	6902	I8
1702	F9	6905	G10
1703	J4	6906	G10
1704	J2	6907	I11
1900	J10	6908	H5
1901	I8	6910	E9
2307	H7	6911	H10
2308	I7	6912	H10
2503	G2	6913	H10
2508	F2	6916	J11
2509	E2	6919	I11
2521	F5	7501	F2
2600	G7	7502	E4
2601	F7	7600	E6
2602	# G7	7602	D11
2603	# F7	7603	F11
2608	G10	7704	J3
2610	G5	7800	H6
2650	G7	7900	I11
2652	F7	7901	I9
2656	G10	7904	H10
2657	G11	7906	I9
2658	F10	7908	I8
2700	H4	7910	G11
2707	G3	7916	G10
2806	H7	7919	J11
2808	E9	9400	F3
2809	F9	9401	C9
2811	E9	9402	F4
2813	H5	9500	F2
2820	G5	9501	F4
2850	E7	9601	F11
2851	F7	9602	# F11
2852	E7	9603	G7
2853	G7	9604	F7
2902	E10	9605	G6
2904	I11	9606	F11
2908	I10	9607	E11
2909	I8	9608	D11
2910	G10	9609	D11
2914	H11	9610	D10
2915	H11	9611	D10
2916	H11	9612	D10
2917	G11	9613	C10
2918	I11	9700	I5
2920	I7	9701	H5
2933	I11	9900	I5
3414	G4	9901	D11
3507	E3	9902	F5
3510	E3	9904	G6
3511	E3	9905	F6
3523	E6	9906	G6
3654	G11	9907	G7
3655	F5	9908	F6
3661	F6	9909	E7
3723	J4	9910	I10
3758	D9	9912	F10
3827	H5	9913	E10
3855	H7	9914	I10
3904	H9	9915	I11
3905	H9	9916	E11
3906	H9	9917	E10
3920	I8	9918	D10
3951	J10	9921	C10
5700	H5	9922	C10
5701	H4	9923	C11
5702	H4	9924	H11
5900	D10	9925	G10
		9928	H10

# INSERTED IN DC932 ONLY  
\* INSERTED IN DC942 ONLY



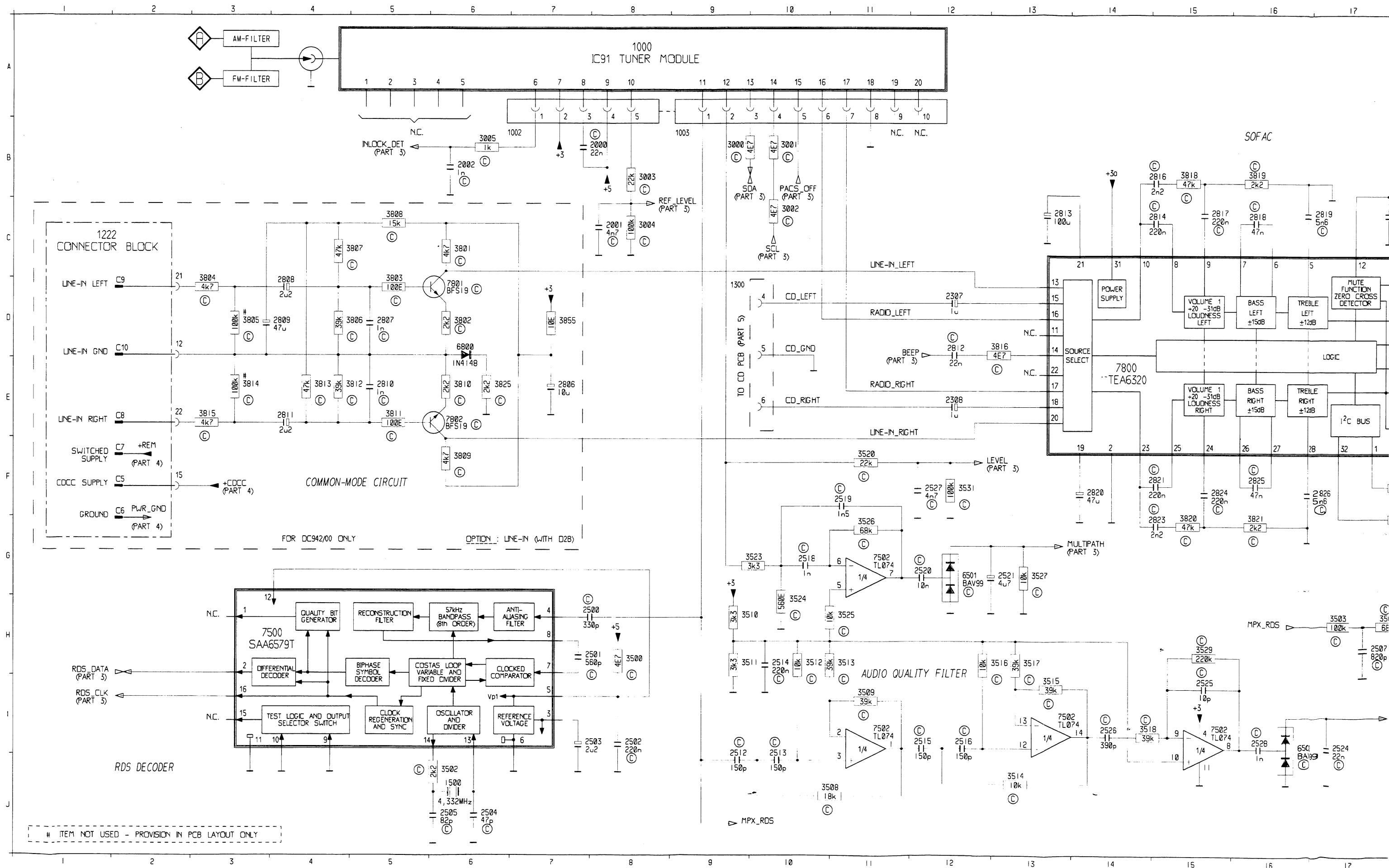
MAIN BOARD (CHIP)



## DC Voltage For Main Board

+1 : 10.8 - 16.0V (off) 10.7 - 15.9V (on)		7501 LA2000	7704 ST24C16	7910 TDA3602
+2 : 0 - 0.2V (off) 10 - 14V (on)		1 : 1.76V	1 : 5V	1 : 12.5V
		2 : 8V	2 : 5V	2 : 8.58V
		3 : 2V	3 : 5V	3 : N.C.
+3 : 0V (off) 8.5V (on)		4 : N.C.	4 : GND	4 : 0.6V
		5 : GND	5 : 5V	5 : 5V
		6 : 4.9V	6 : 5V	6 : GND
+4 : 4.9 - 5.15V (off) 5V (on)		7 : N.C.	7 : GND	7 : 5V
		8 : N.C.	8 : 5V	8 : 12.3V
		9 : 8.3V		9 : 5V
+5 : 0.6V (off) 5V		7502 TL074	7706 HEF44521BT	7921 HEF4044BT
+7 : 5V (off) 5V (on)		1 : 4.1V	1 : N.C.	1 : 5V
		2 : 4.1V	2 : GND	2 : N.C.
		3 : 4.1V	3 : 5V	3 : 5V
		4 : 8.6V	4 : 5V	4 : 5V
+9 : 10 - 15.3V (off) 9.9 - 15.1 (on)		5 : 4.1V	5 : 10V	5 : 5V
		6 : 4.1V	6 : 5V	6 : 4.38V
		7 : 4.1V	7 : N.C.	7 : 5V
		8 : 4.1V	8 : GND	8 : GND
		9 : 4.1V	9 : GND	9 : 5V
1000 IC 91 TUNER MODULE		10 : 4.1V	10 : N.C.	10 : 5V
1 - 5 : N.C.		11 : GND	11 : N.C.	11 : 5V
6 : 5V		12 : 4.1V	12 : N.C.	12 : 5V
7 : 8.5V		13 : 4.4V	13 : N.C.	13 : 0V
8 : 0V		14 : 4.1V	14 : 5V	14 : 5V
9 : 5V			15 : N.C.	15 : 2.6V
10 : 5V		7602 TDA7374	16 : 5V	16 : 5V
11 : 3V		1 : RR +		
12 : 3.7V		2 : RR -	7707 MSM6307GS	
13 : 5V		3 : 13.3V	1 - 3 : 4.8V	
14 : 5V		4 : 0.68V	4 : N.C.	
15 : 0.2V		5 : 0.68V	5 - 8 : 4.8V	
16 : 3.6V		6 : 10.7V	9 : 0V	
17 : 3.7V		7 : 4.12V	10 - 12 : 4.8V	
18 : 0V		8 : 0V	13 : N.C.	
19 : N.C.		9 : 0V	14 : 4.9V	
20 : N.C.		10 : 0V	15 : 4.9V	
7500 SAA6579T		11 : 0.6V	16 : GND	
1 : N.C.		12 : 0.6V	17 : 4.8V	
2 : 5V		13 : 10.7V	18 : N.C.	
3 : 3V		14 : FR -	19 : 1.95V	
4 : 2.43V		15 : FR +	20 : 1.98V	
5 : 5V			21 : 4.8V	
6 : GND		7603 TDA7374	22 : N.C.	
7 : 2.43V		1 : RR +	23 : 4.8V	
8 : 2.5V		2 : RR -	24 : 2.26V	
9 : GND		3 : 13.3V	25 : 1.49V	
10 : GND		4 : 0.68V	26 : 4.8V	
11 : GND		5 : 0.68V	27 : 4.8V	
12 : 5V		6 : 0.68V	28 : N.C.	
13 : 5V		7 : 4.12V	29 - 32 : 4.8V	
14 : 2.5V		8 : 0V		
15 : N.C.		9 : 0V		
16 : 5V		10 : 0V		
		11 : 0.6V		
		12 : 0.6V		
		13 : 13.3V		
		14 : FR -		
		15 : FR +		

# PART 1 : TUNER, RDS, SOFAC & LINE-IN INTERFACE (MAIN PCB)





**FADER SWITCH**

OPTION : 4X7W / 2X20W FADER SWITCH  
++ 3616, 3653 & 7605 TO BE INSERTED WITH THIS OPTION ONLY

# ITEM NOT USED - PROVISION IN PCB LAYOUT ONLY

REAR\_LEFT (PART 1)  
FRONT\_LEFT (PART 1)  
FRONT\_RIGHT (PART 1)  
REAR\_RIGHT (PART 1)

RR FR FL RL

W/O FADER SWITCH

\* OPTION

* OPTION	4X7W ONLY	2X20W ONLY	4X20W ONLY
2602	INSERT	INSERT	DELETE
2603	INSERT	INSERT	DELETE
2650	DELETE	DELETE	INSERT
2651	DELETE	DELETE	INSERT
2652	DELETE	DELETE	INSERT
2653	DELETE	DELETE	INSERT
2655	DELETE	DELETE	INSERT
2656	INSERT	DELETE	DELETE
2657	DELETE	DELETE	INSERT
2658	INSERT	DELETE	INSERT
3600	DELETE	INSERT	DELETE

FOR DC932/00 ONLY

POWER AMPLIFIER

OPTION : REMOTE 2 INT (IF NO LINE-OUT)  
FOR DC932/31B ONLY

REMOTE\_2\_INT (PART 3)

OPTION : REMOTE 2 (IF NO LINE-OUT)  
FOR DC932/31B ONLY

REMOTE\_2 (PART 3)

HOLD (PART 4)

7600 MC14066BCP

7604 BC858B

7602 TDA7374

7603 TDA7374

7605 BC847

3604 4k7

3606 47k

3608 1k

3609 1k

3610 1k

3611 1k

3616 68k

3653 10k

3654 2k2 PTC

3655 22k

3656 2200u

3657 100u

3658 2200u

3659 1k

3660 4E7

3661 6k8

3662 15k

3663 1k

3664 1k

3665 1k

3666 1k

3667 1k

3668 1k

3669 1k

3670 1k

3671 1k

3672 1k

3673 1k

3674 1k

3675 1k

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3677 1k

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3800 1k

3801 1k

3802 1k

3803 1k

3804 1k

3805 1k

3806 1k

3807 1k

3808 1k

3809 1k

3810 1k

3811 1k

3812 1k

3813 1k

3814 1k

3815 1k

3816 1k

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3819 1k

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3824 1k

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3895 1k

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3897 1k

3898 1k

3899 1k

3900 1k

3901 1k

3902 1k

3903 1k

3904 1k

3905 1k

3906 1k

3907 1k

3908 1k

3909 1k

3910 1k

3911 1k

3912 1k

3913 1k

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3917 1k

3918 1k

3919 1k

3920 1k

3921 1k

3922 1k

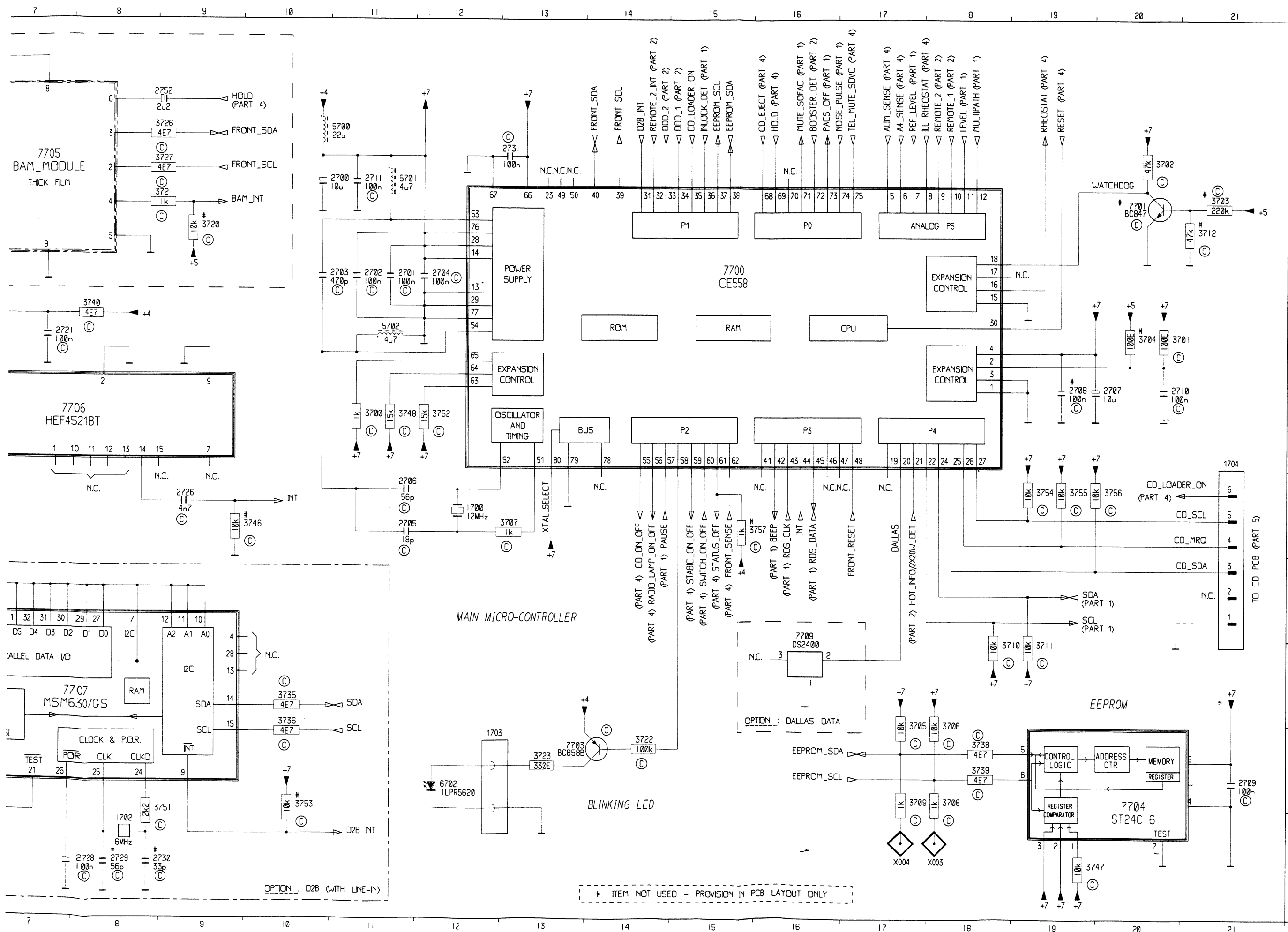
3923 1k

39



[illegible]

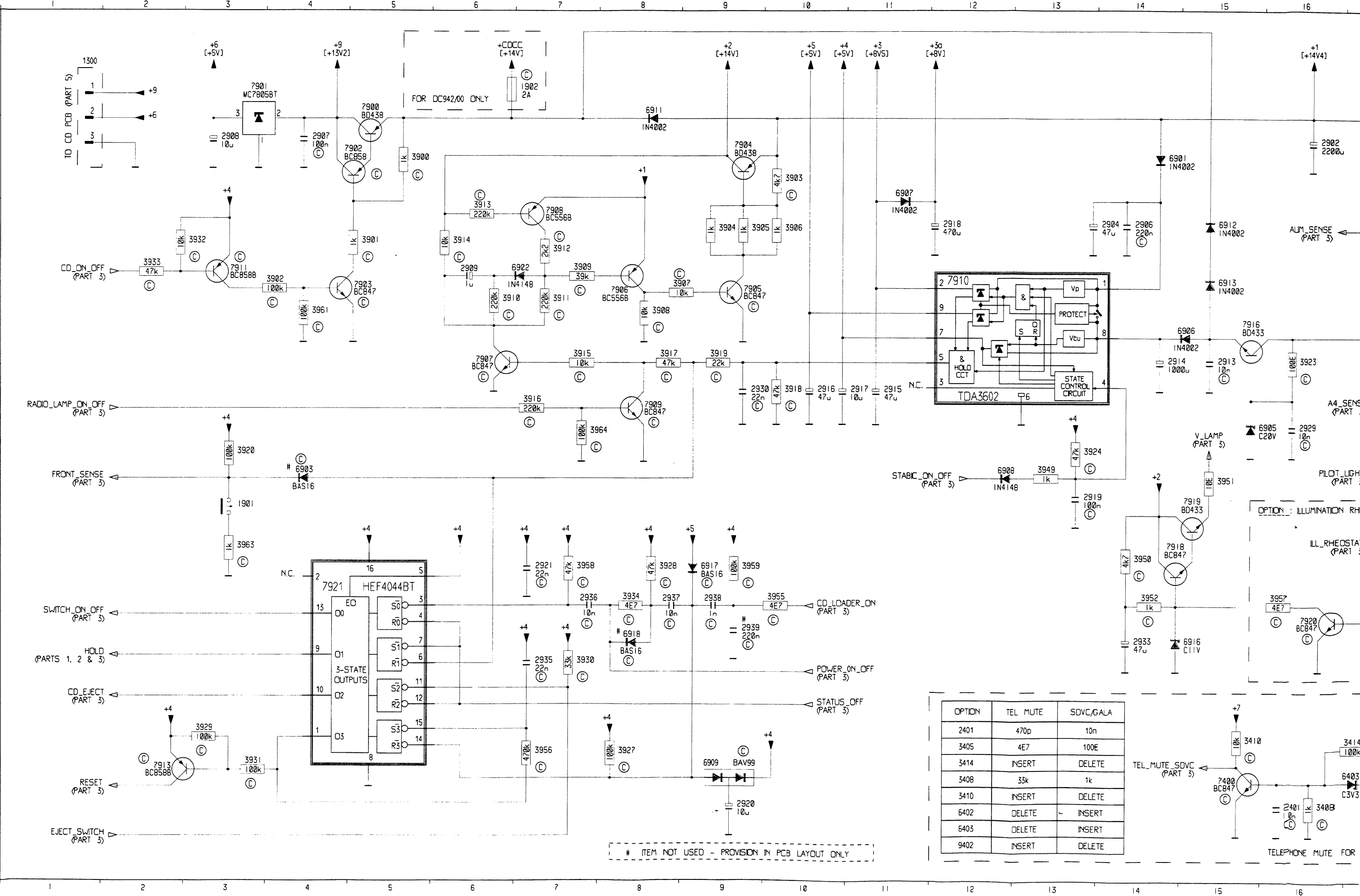




1222	7705	BAM_MODULE	THICK FILM
1223	7706	HEF4521BT	
1224	7707	MSM6307GS	
1225	7708	DS2400	
1226	7709	ST24C16	
1227	7710	BC847	
1228	7711	BC858B	
1229	7712	TLPR5620	
1230	7713	CE558	
1231	7714	MSM6307GS	
1232	7715	HEF4521BT	
1233	7716	BAM_MODULE	THICK FILM
1234	7717	DS2400	
1235	7718	ST24C16	
1236	7719	BC847	
1237	7720	BC858B	
1238	7721	TLPR5620	
1239	7722	CE558	
1240	7723	MSM6307GS	
1241	7724	HEF4521BT	
1242	7725	BAM_MODULE	THICK FILM
1243	7726	DS2400	
1244	7727	ST24C16	
1245	7728	BC847	
1246	7729	BC858B	
1247	7730	TLPR5620	
1248	7731	CE558	
1249	7732	MSM6307GS	
1250	7733	HEF4521BT	
1251	7734	BAM_MODULE	THICK FILM
1252	7735	DS2400	
1253	7736	ST24C16	
1254	7737	BC847	
1255	7738	BC858B	
1256	7739	TLPR5620	
1257	7740	CE558	
1258	7741	MSM6307GS	
1259	7742	HEF4521BT	
1260	7743	BAM_MODULE	THICK FILM
1261	7744	DS2400	
1262	7745	ST24C16	
1263	7746	BC847	
1264	7747	BC858B	
1265	7748	TLPR5620	
1266	7749	CE558	
1267	7750	MSM6307GS	
1268	7751	HEF4521BT	
1269	7752	BAM_MODULE	THICK FILM
1270	7753	DS2400	
1271	7754	ST24C16	
1272	7755	BC847	
1273	7756	BC858B	
1274	7757	TLPR5620	
1275	7758	CE558	
1276	7759	MSM6307GS	
1277	7760	HEF4521BT	
1278	7761	BAM_MODULE	THICK FILM
1279	7762	DS2400	
1280	7763	ST24C16	
1281	7764	BC847	
1282	7765	BC858B	
1283	7766	TLPR5620	
1284	7767	CE558	
1285	7768	MSM6307GS	
1286	7769	HEF4521BT	
1287	7770	BAM_MODULE	THICK FILM
1288	7771	DS2400	
1289	7772	ST24C16	
1290	7773	BC847	
1291	7774	BC858B	
1292	7775	TLPR5620	
1293	7776	CE558	
1294	7777	MSM6307GS	
1295	7778	HEF4521BT	
1296	7779	BAM_MODULE	THICK FILM
1297	7780	DS2400	
1298	7781	ST24C16	
1299	7782	BC847	
1300	7783	BC858B	
1301	7784	TLPR5620	
1302	7785	CE558	
1303	7786	MSM6307GS	
1304	7787	HEF4521BT	
1305	7788	BAM_MODULE	THICK FILM
1306	7789	DS2400	
1307	7790	ST24C16	
1308	7791	BC847	
1309	7792	BC858B	
1310	7793	TLPR5620	
1311	7794	CE558	
1312	7795	MSM6307GS	
1313	7796	HEF4521BT	
1314	7797	BAM_MODULE	THICK FILM
1315	7798	DS2400	
1316	7799	ST24C16	
1317	7800	BC847	
1318	7801	BC858B	
1319	7802	TLPR5620	
1320	7803	CE558	
1321	7804	MSM6307GS	
1322	7805	HEF4521BT	
1323	7806	BAM_MODULE	THICK FILM
1324	7807	DS2400	
1325	7808	ST24C16	
1326	7809	BC847	
1327	7810	BC858B	
1328	7811	TLPR5620	
1329	7812	CE558	
1330	7813	MSM6307GS	
1331	7814	HEF4521BT	
1332	7815	BAM_MODULE	THICK FILM
1333	7816	DS2400	
1334	7817	ST24C16	
1335	7818	BC847	
1336	7819	BC858B	
1337	7820	TLPR5620	
1338	7821	CE558	
1339	7822	MSM6307GS	
1340	7823	HEF4521BT	
1341	7824	BAM_MODULE	THICK FILM
1342	7825	DS2400	
1343	7826	ST24C16	
1344	7827	BC847	
1345	7828	BC858B	
1346	7829	TLPR5620	
1347	7830	CE558	
1348	7831	MSM6307GS	
1349	7832	HEF4521BT	
1350	7833	BAM_MODULE	THICK FILM
1351	7834	DS2400	
1352	7835	ST24C16	
1353	7836	BC847	
1354	7837	BC858B	
1355	7838	TLPR5620	
1356	7839	CE558	
1357	7840	MSM6307GS	
1358	7841	HEF4521BT	
1359	7842	BAM_MODULE	THICK FILM
1360	7843	DS2400	
1361	7844	ST24C16	
1362	7845	BC847	
1363	7846	BC858B	
1364	7847	TLPR5620	
1365	7848	CE558	
1366	7849	MSM6307GS	
1367	7850	HEF4521BT	
1368	7851	BAM_MODULE	THICK FILM
1369	7852	DS2400	
1370	7853	ST24C16	
1371	7854	BC847	
1372	7855	BC858B	
1373	7856	TLPR5620	
1374	7857	CE558	
1375	7858	MSM6307GS	
1376	7859	HEF4521BT	
1377	7860	BAM_MODULE	THICK FILM
1378	7861	DS2400	
1379	7862	ST24C16	
1380	7863	BC847	
1381	7864	BC858B	
1382	7865	TLPR5620	
1383	7866	CE558	
1384	7867	MSM6307GS	
1385	7868	HEF4521BT	
1386	7869	BAM_MODULE	THICK FILM
1387	7870	DS2400	
1388	7871	ST24C16	
1389	7872	BC847	
1390	7873	BC858B	
1391	7874	TLPR5620	
1392	7875	CE558	
1393	7876	MSM6307GS	
1394	7877	HEF4521BT	
1395	7878	BAM_MODULE	THICK FILM
1396	7879	DS2400	
1397	7880	ST24C16	
1398	7881	BC847	
1399	7882	BC858B	
1400	7883	TLPR5620	

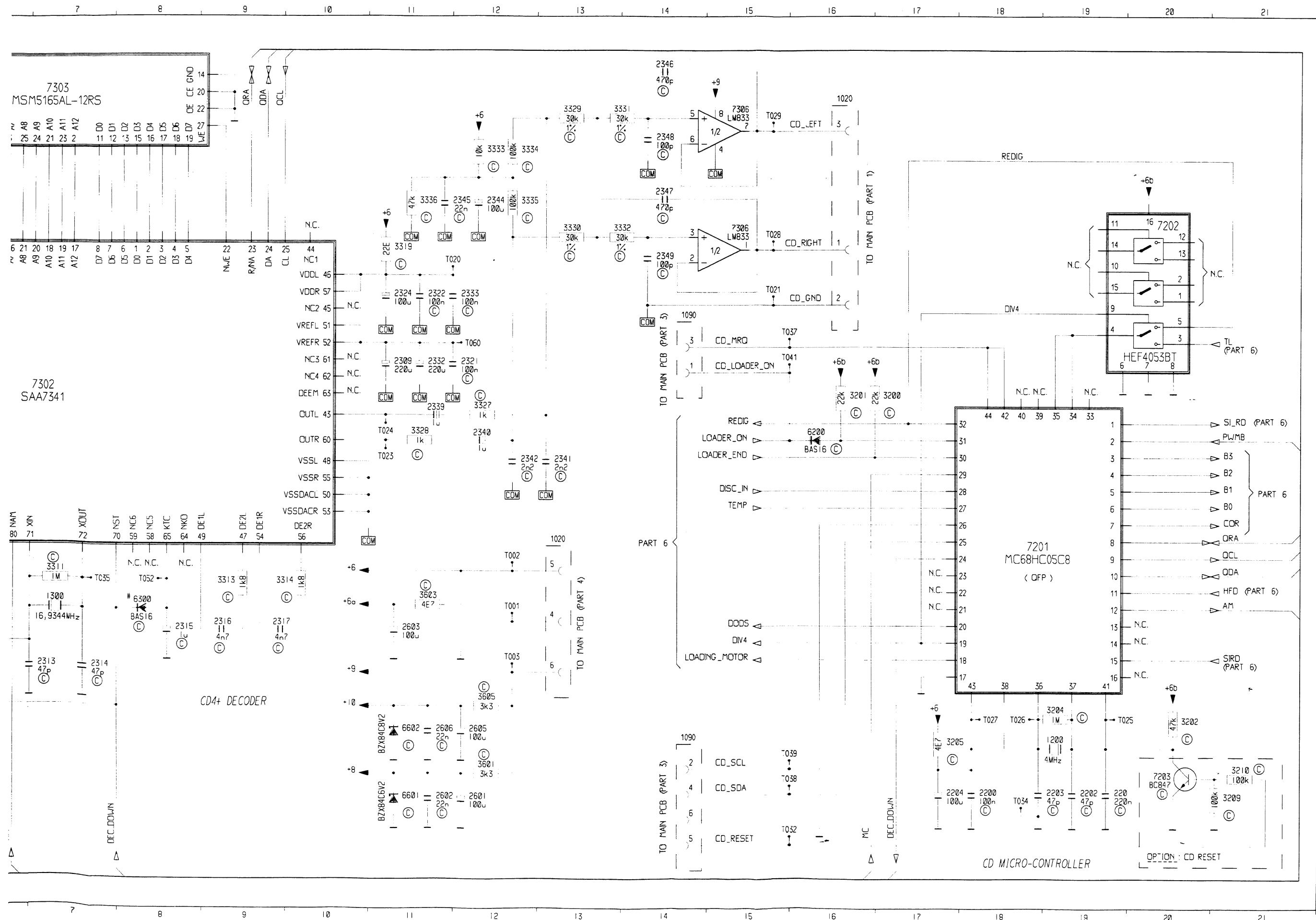


PART 4 : SUPPLY (MAIN PCB)









A	1020	A16
	1020	F13
	1050	I12
	1050	I14
	1050	D14
	1200	I19
	1300	G
	2200	I18
	2200	I19
	2202	I19
B	2202	I17
	2204	I17
	3000	B3
	3001	B3
	3002	B4
	3004	C3
	3005	C3
	3006	C3
	3007	E3
	3008	E3
C	3009	D3
	3113	H7
	3114	H7
	3115	G9
	3116	G9
	3117	G9
	3220	B3
	3221	B3
	3222	D11
	3223	B3
D	3224	D11
	3225	I5
	3225	I5
	3227	B3
	3228	H3
	3229	I3
	3230	D11
	3231	H2
	3232	H2
	3233	H2
E	3234	I11
	3235	I11
	3236	I11
	3237	I11
	3238	I11
	3239	I11
	3240	I11
	3411	A14
	3442	B14
	3443	B14
F	3444	B14
	3445	B14
	3446	A14
	3447	B14
	3448	B14
	3449	C14
	2601	I12
	2602	I11
	2603	G11
	2605	I12
G	2606	I11
	3200	E16
	3201	I20
	3202	I20
	3204	H19
	3205	I17
	3209	I12
	3210	I21
	3301	B22
	3302	B22
H	3303	B22
	3304	E22
	3305	E22
	3306	E22
	3307	G4
	3312	G3
	3313	G3
	3314	G10
	3319	C11
	3320	G1
I	3323	H6
	3325	H2
	3326	H2
	3327	E12
	3328	E12
	3329	A13
	3330	C13
	3331	A14
	3332	C14
	3333	B12
J	3334	B12
	3335	B12
	3336	B11
	3601	I12
	3603	G11
	3605	H12
	6200	G8
	6300	G8
	6802	G8
	7201	G18
K	7202	C20
	7203	I20
	7302	E7
	7303	A7
	7304	I1
	7304	I2
	7306	G6
	7306	C15
	7306	A1
	7306	G6

The schematic diagram illustrates the internal circuitry of a VCR control system, featuring two main integrated circuits (ICs) and their associated peripheral components.

**IC 1: TDA8808T/C3 (7001)**

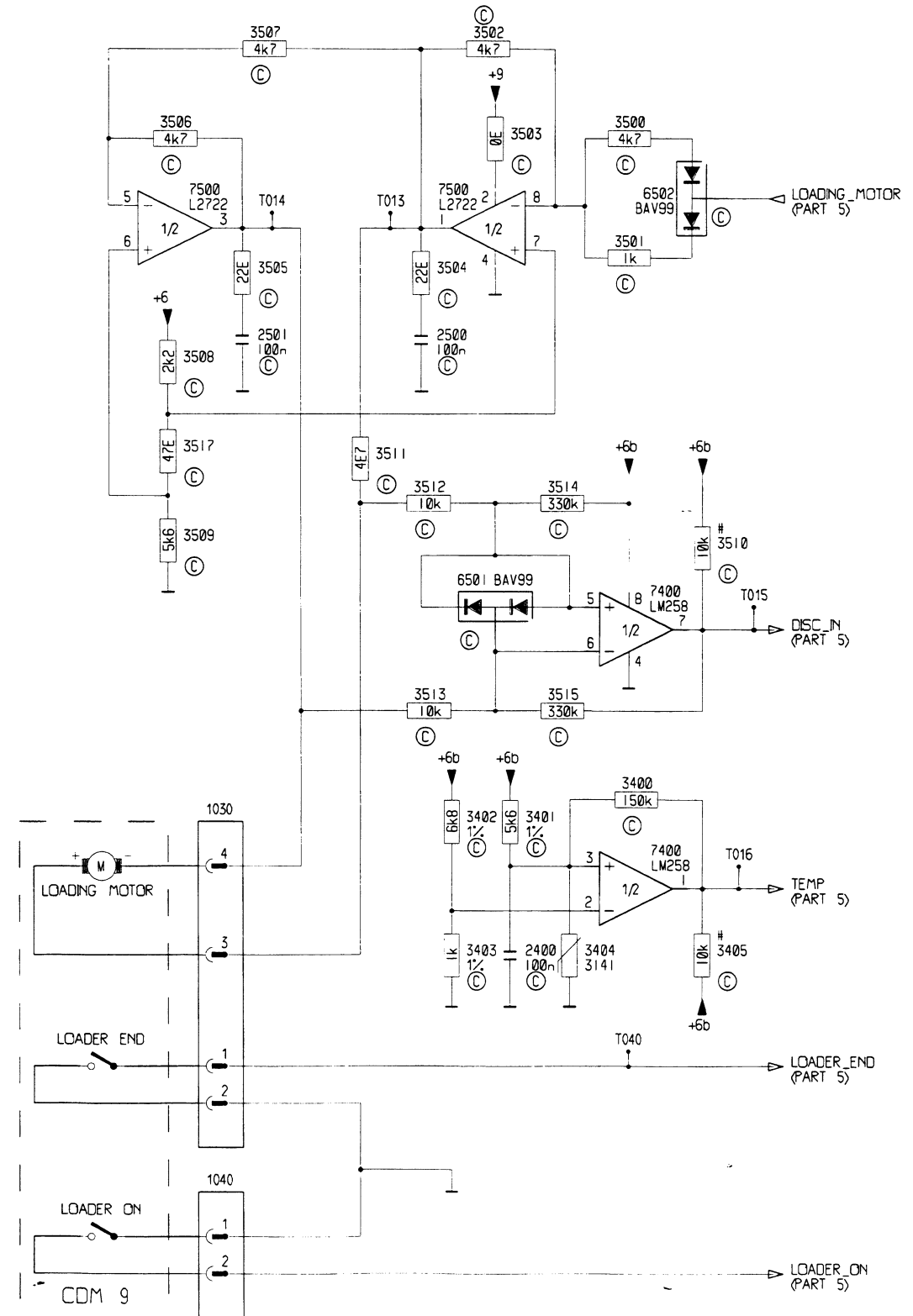
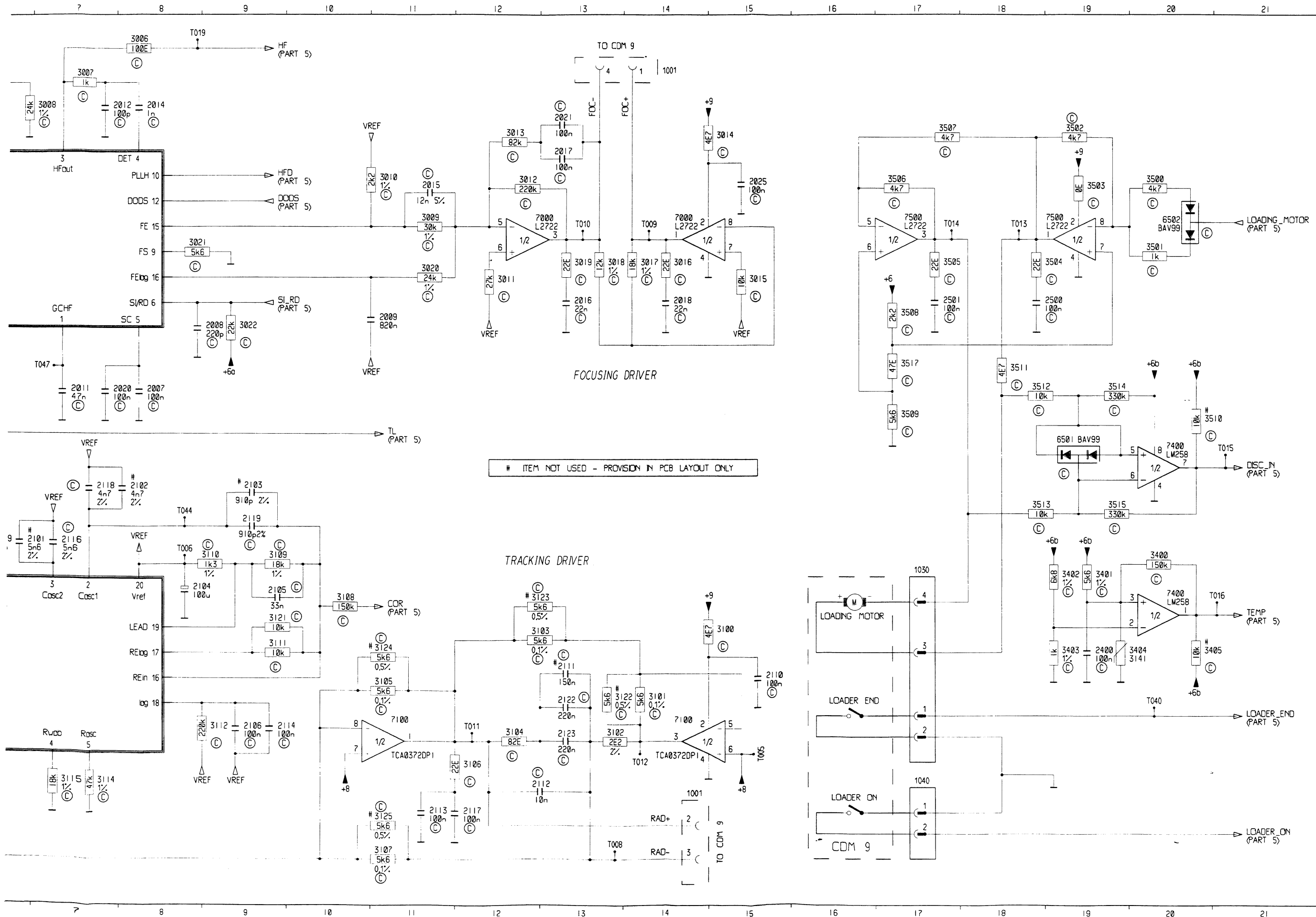
- Pin 1 (GCHF):** Connected to ground.
- Pin 2 (HFIn):** Connected to the HF input signal.
- Pin 3 (HFout):** Connected to the HF output signal.
- Pin 4 (DET):** Connected to the DET input signal.
- Pin 5 (SC):** Connected to the SC input signal.
- Pin 6 (SIRD):** Connected to the SIRD input signal.
- Pin 7 (FS):** Connected to the FS input signal.
- Pin 8 (FE):** Connected to the FE input signal.
- Pin 9 (FEIn):** Connected to the FEIn input signal.
- Pin 10 (PLLH):** Connected to the PLLH input signal.
- Pin 11 (TL):** Connected to the TL input signal.
- Pin 12 (DODS):** Connected to the DODS input signal.
- Pin 13 (VBB):** Connected to the VBB input signal.
- Pin 14 (CLPF):** Connected to the CLPF input signal.
- Pin 15 (D1):** Connected to the D1 input signal.
- Pin 16 (D2):** Connected to the D2 input signal.
- Pin 17 (D3):** Connected to the D3 input signal.
- Pin 18 (D4):** Connected to the D4 input signal.
- Pin 19 (BEQ):** Connected to the BEQ input signal.
- Pin 20 (RE2):** Connected to the RE2 input signal.
- Pin 21 (RE1):** Connected to the RE1 input signal.
- Pin 22 (D1):** Connected to the D1 input signal.
- Pin 23 (D2):** Connected to the D2 input signal.
- Pin 24 (D3):** Connected to the D3 input signal.
- Pin 25 (D4):** Connected to the D4 input signal.
- Pin 26 (HFIn):** Connected to the HF input signal.
- Pin 27 (VBB):** Connected to the VBB input signal.

**IC 2: TDA8809T/C2 (7101)**

- Pin 1 (VDD):** Connected to the VDD input signal.
- Pin 2 (Vref):** Connected to the Vref input signal.
- Pin 3 (Casc2):** Connected to the Casc2 input signal.
- Pin 4 (Rvab):** Connected to the Rvab input signal.
- Pin 5 (Rasc):** Connected to the Rasc input signal.
- Pin 6 (DIV4):** Connected to the DIV4 input signal.
- Pin 7 (REDIG):** Connected to the REDIG input signal.
- Pin 8 (B3):** Connected to the B3 input signal.
- Pin 9 (B2):** Connected to the B2 input signal.
- Pin 10 (B1):** Connected to the B1 input signal.
- Pin 11 (B0):** Connected to the B0 input signal.
- Pin 12 (Vert+):** Connected to the Vert+ input signal.
- Pin 13 (Vert-):** Connected to the Vert- input signal.
- Pin 14 (RDAC):** Connected to the RDAC input signal.
- Pin 15 (RADout):** Connected to the RADout input signal.
- Pin 16 (REIn):** Connected to the REIn input signal.
- Pin 17 (REIn):** Connected to the REIn input signal.
- Pin 18 (log):** Connected to the log input signal.
- Pin 19 (LEAD):** Connected to the LEAD input signal.
- Pin 20 (Vref):** Connected to the Vref input signal.
- Pin 21 (AGG):** Connected to the AGG input signal.
- Pin 22 (RDAC):** Connected to the RDAC input signal.
- Pin 23 (in):** Connected to the in input signal.
- Pin 24 (offset):** Connected to the offset input signal.
- Pin 25 (CLPF):** Connected to the CLPF input signal.
- Pin 26 (CHPF):** Connected to the CHPF input signal.
- Pin 27 (RE1):** Connected to the RE1 input signal.

**Other Components and Connections:**

- Resistors:** Various resistors are used throughout the circuit, including 10k, 20k, 30k, 40k, 50k, 60k, 70k, 80k, 90k, 100k, 110k, 120k, 130k, 140k, 150k, 160k, 170k, 180k, 190k, 200k, 210k, 220k, 230k, 240k, 250k, 260k, 270k, 280k, 290k, 300k, 310k, 320k, 330k, 340k, 350k, 360k, 370k, 380k, 390k, 400k, 410k, 420k, 430k, 440k, 450k, 460k, 470k, 480k, 490k, 500k, 510k, 520k, 530k, 540k, 550k, 560k, 570k, 580k, 590k, 600k, 610k, 620k, 630k, 640k, 650k, 660k, 670k, 680k, 690k, 700k, 710k, 720k, 730k, 740k, 750k, 760k, 770k, 780k, 790k, 800k, 810k, 820k, 830k, 840k, 850k, 860k, 870k, 880k, 890k, 900k, 910k, 920k, 930k, 940k, 950k, 960k, 970k, 980k, 990k, 1000k.
- Capacitors:** Various capacitors are used throughout the circuit, including 10pF, 20pF, 30pF, 40pF, 50pF, 60pF, 70pF, 80pF, 90pF, 100pF, 110pF, 120pF, 130pF, 140pF, 150pF, 160pF, 170pF, 180pF, 190pF, 200pF, 210pF, 220pF, 230pF, 240pF, 250pF, 260pF, 270pF, 280pF, 290pF, 300pF, 310pF, 320pF, 330pF, 340pF, 350pF, 360pF, 370pF, 380pF, 390pF, 400pF, 410pF, 420pF, 430pF, 440pF, 450pF, 460pF, 470pF, 480pF, 490pF, 500pF, 510pF, 520pF, 530pF, 540pF, 550pF, 560pF, 570pF, 580pF, 590pF, 600pF, 610pF, 620pF, 630pF, 640pF, 650pF, 660pF, 670pF, 680pF, 690pF, 700pF, 710pF, 720pF, 730pF, 740pF, 750pF, 760pF, 770pF, 780pF, 790pF, 800pF, 810pF, 820pF, 830pF, 840pF, 850pF, 860pF, 870pF, 880pF, 890pF, 900pF, 910pF, 920pF, 930pF, 940pF, 950pF, 960pF, 970pF, 980pF, 990pF, 1000pF.
- Transistors:** Various transistors are used throughout the circuit, including 7003, 7004, 7005, 7006, 7007, 7008, 7009, 7010, 7011, 7012, 7013, 7014, 7015, 7016, 7017, 7018, 7019, 7020, 7021, 7022, 7023, 7024, 7025, 7026, 7027, 7028, 7029, 7030, 7031, 7032, 7033, 7034, 7035, 7036, 7037, 7038, 7039, 7040, 7041, 7042, 7043, 7044, 7045, 7046, 7047, 7048, 7049, 7050, 7051, 7052, 7053, 7054, 7055, 7056, 7057, 7058, 7059, 7060, 7061, 7062, 7063, 7064, 7065, 7066, 7067, 7068, 7069, 7070, 7071, 7072, 7073, 7074, 7075, 7076, 7077, 7078, 7079, 7080, 7081, 7082, 7083, 7084, 7085, 7086, 7087, 7088, 7089, 7090, 7091, 7092, 7093, 7094, 7095, 7096, 7097, 7098, 7099, 7100, 7101, 7102, 7103, 7104, 7105, 7106, 7107, 7108, 7109, 7110, 7111, 7112, 7113, 7114, 7115, 7116, 7117, 7118, 7119, 7120, 7121, 7122, 7123, 7124, 7125, 7126, 7127, 7128, 7129, 7130, 7131, 7132, 7133, 7134, 7135, 7136, 7137, 7138, 7139, 7140, 7141, 7142, 7143, 7144, 7145, 7146, 7147, 7148, 7149, 7150, 7151, 7152, 7153, 7154, 7155, 7156, 7157, 7158, 7159, 7160, 7161, 7162, 7163, 7164, 7165, 7166, 7167, 7168, 7169, 7170, 7171, 7172, 7173, 7174, 7175, 7176, 7177, 7178, 7179, 7180, 7181, 7182, 7183, 7184, 7185, 7186, 7187, 7188, 7189, 7190, 7191, 7192, 7193, 7194, 7195, 7196, 7197, 7198, 7199, 7200, 7201, 7202, 7203, 7204, 72



A	1001	A14	3502	B19
	1001	A114	3503	B19
	1001	B1	3504	C19
	1030	G17	3505	C17
	1040	I17	3506	B17
	2000	A3	3507	B17
	2001	A4	3508	D17
	2002	B3	3509	E17
	2003	C3	3510	E21
	2005	E6	3511	D18
B	2006	F4	3512	E18
	2007	E8	3513	F18
	2008	D9	3514	E19
	2009	D11	3515	F19
	2010	A5	3517	D17
	2011	E7	6100	J3
	2012	A8	6501	E19
	2013	A6	6502	C20
	2014	A8	7000	C14
	2015	B11	7000	C12
C	2016	D13	7001	C6
	2017	B13	7003	E4
	2019	D14	7100	I11
	2020	E8	7102	I14
	2022	A13	7101	H6
	2023	E5	7103	J3
	2024	E5	7400	G20
	2025	B15	7400	E20
	2100	J4	7500	C19
	2101	F7	7500	C17
D	2102	F8		
	2103	F9		
	2104	G9		
	2105	G9		
	2106	I9		
	2107	F5		
	2108	F6		
	2109	F6		
	2110	H15		
	2111	H13		
E	2112	I13		
	2113	J11		
	2114	I5		
	2115	F5		
	2116	F7		
	2117	J12		
	2118	F7		
	2119	F9		
	2120	J4		
	2122	H13		
F	2123	I13		
	2400	H19		
	2500	D19		
	2501	D17		
	3000	A3		
	3001	A3		
	3002	E3		
	3003	E3		
	3004	F5		
	3005	A5		
G	3006	A8		
	3007	A7		
	3008	A7		
	3009	C11		
	3010	B11		
	3011	C12		
	3012	B12		
	3013	B12		
	3014	B15		
	3015	C15		
H	3016	C14		
	3017	C14		
	3018	C13		
	3019	C13		
	3020	C11		
	3021	C8		
	3022	D9		
	3100	H15		
	3101	H14		
	3102	I13		
3103	H12			
I	3104	I12		
	3105	H11		
	3106	I12		
	3107	J11		
	3108	G10		
	3109	G9		
	3110	G9		
	3111	H9		
	3112	I9		
	3113	I5		
J	3114	I7		
	3115	G2		
	3116	I3		
	3117	J3		
	3118	J3		
	3120	C6		
	3122	H14		
	3123	G13		
	3124	H11		
	3125	J11		
K	3400	G20		
	3401	G19		
	3402	G19		
	3403	H19		
	3404	H20		
	3405	H21		
L	3500	B20		
	3501	C20		

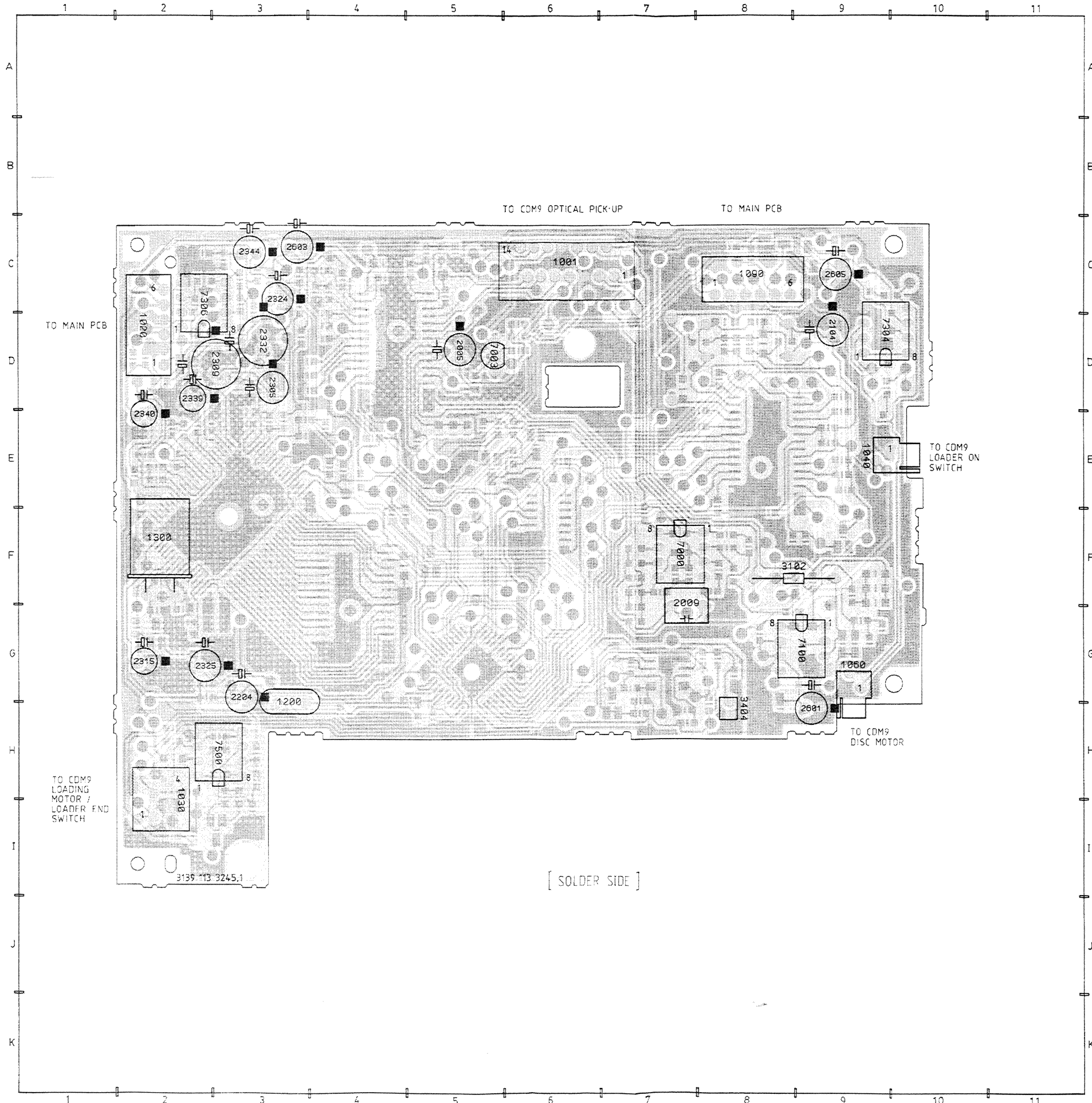
**DC Voltage For CD Board**

+6	:	5V
+6a	:	4.9v
+8	:	6V
+9	:	14.4V
+10	:	8.2V
Vref	:	2.44V
RAD-	:	4.9
FOC+	:	2.44V
FOC-	:	2.44V
RAD+	:	6V
DISC IN	:	3.74V
TEMP	:	3.74V
HF	:	2.4V
VDDL	:	4.4V
VDDA	:	5V
OUTR	:	2.2V
OUTL	:	2.2V
RESET	:	5V
OSC2	:	5V
VDD	:	5V
CD RIGHT	:	4V
CD LEFT	:	4V
MC	:	5V
KTC	:	5V
VREFL	:	2.5V

AGC Voltages of 7001 TDA8808T/C3 and 7101 TDA8809T/C2 while playing track 1

GCHF TDA8808 PIN 1	:	2.40V
GCLF TDA8808 PIN 19	:	1.81V
UAGC TDA8809 PIN 21	:	2.56V
Voff TDA8809 PIN 23	:	2.22V

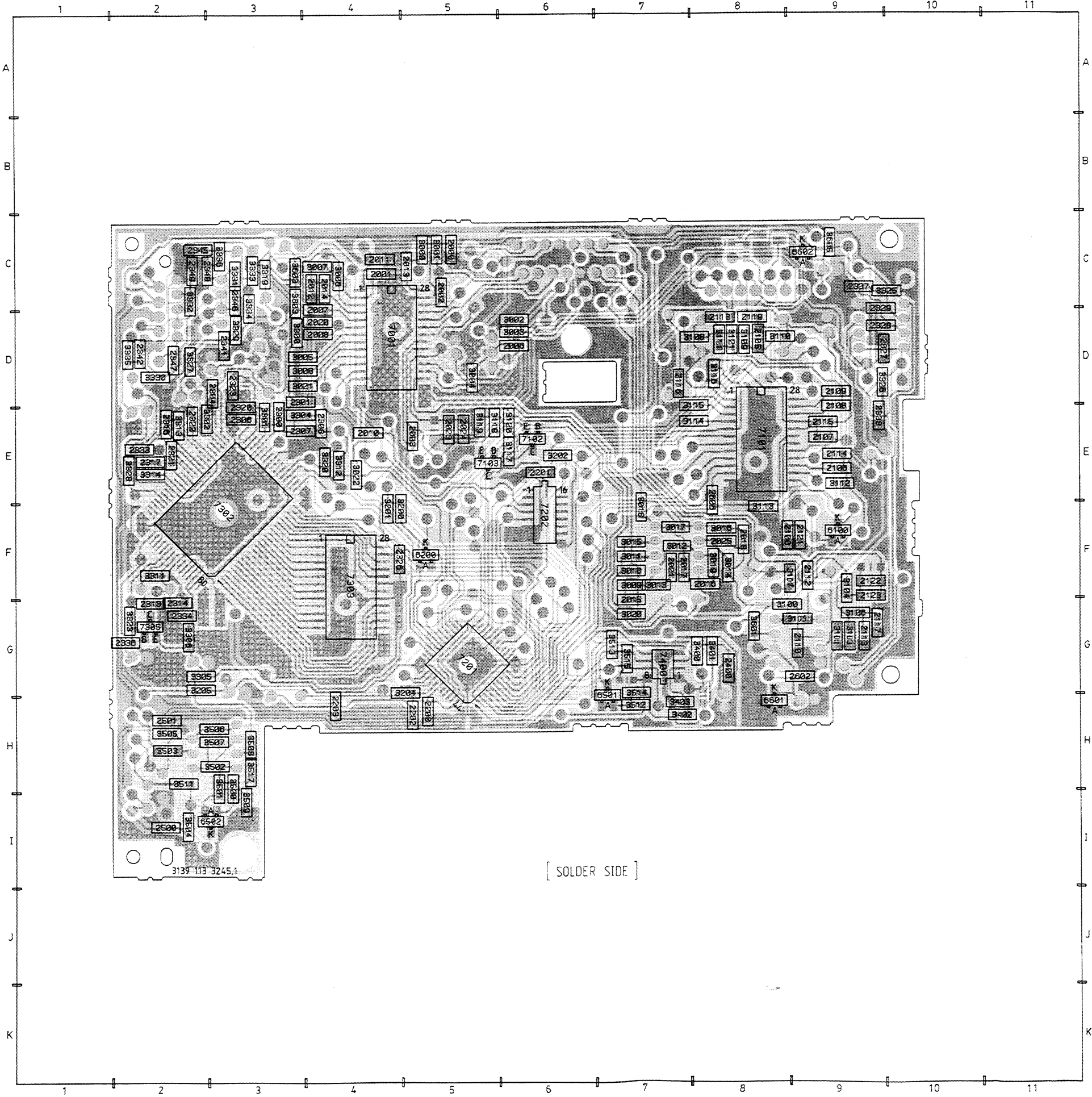
### CD BOARD (NON-CHIP)



- |      |    |
|------|----|
| 1001 | C6 |
| 1020 | D2 |
| 1030 | H2 |
| 1040 | E9 |
| 1060 | G9 |
| 1090 | C8 |
| 1200 | G3 |
| 1300 | F2 |
| 2005 | D5 |
| 2009 | G7 |
| 2104 | D9 |
| 2204 | G3 |
| 2305 | D3 |
| 2309 | D3 |
| 2315 | G2 |
| 2324 | C3 |
| 2325 | G2 |
| 2332 | D2 |
| 2339 | D3 |
| 2340 | E2 |
| 2344 | C3 |
| 2601 | H9 |
| 2603 | C3 |
| 2605 | C9 |
| 3102 | F8 |
| 3404 | H8 |
| 7000 | F7 |
| 7003 | D5 |
| 7100 | G9 |
| 7304 | D2 |
| 7306 | C9 |
| 7500 | H3 |

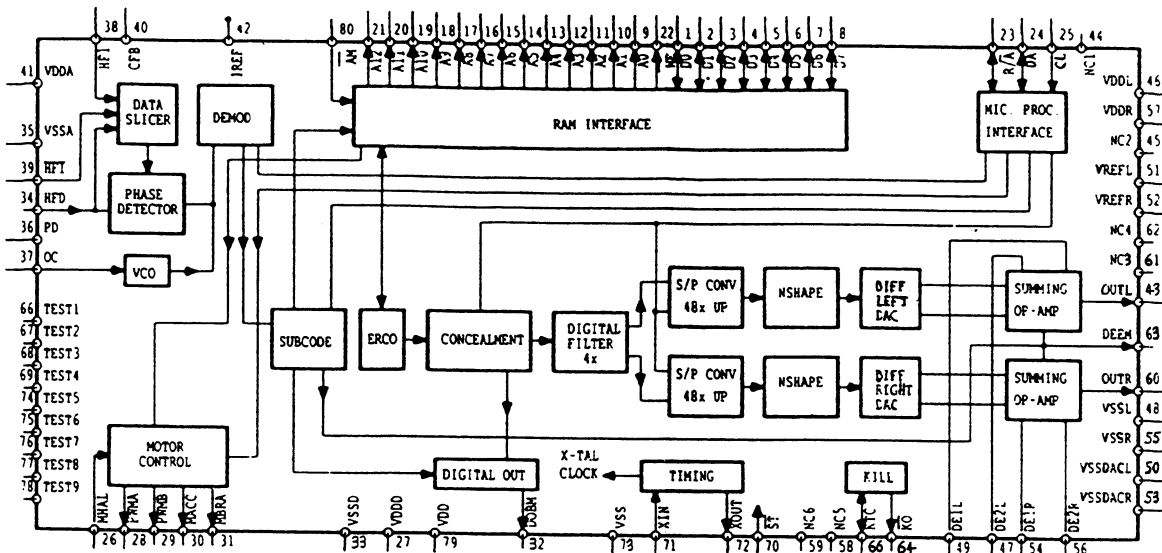


CD BOARD (CHIP)

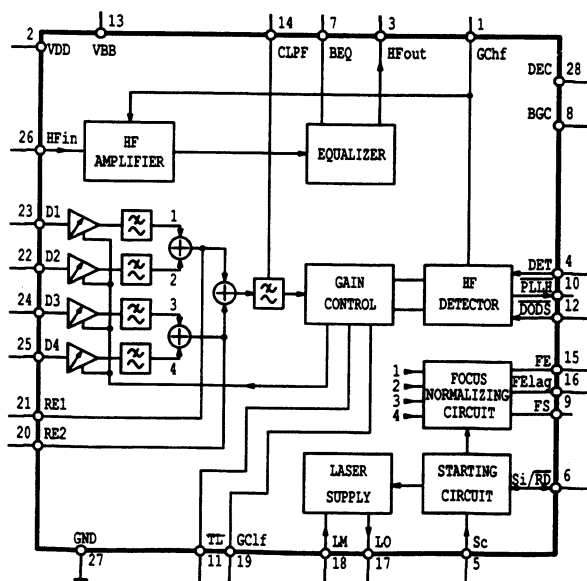


2000	C5	2338	E9	3301	E3
2001	C4	2341	D3	3302	E2
2002	C5	2342	D2	3303	C3
2003	E5	2345	C2	3304	E3
2006	D6	2346	C3	3305	G2
2007	D4	2347	D2	3306	G2
2008	D4	2348	C2	3311	F2
2010	E4	2349	C2	3312	E4
2011	C4	2400	G8	3313	E2
2012	C4	2500	I2	3314	E2
2013	C5	2501	H2	3319	C3
2014	C4	2602	G9	3320	E4
2015	G7	2606	E8	3323	G2
2016	F8	3000	C5	3325	C10
2017	F7	3001	C5	3326	D9
2018	F8	3002	D6	3327	D2
2020	D4	3003	D6	3328	E2
2021	F7	3004	D5	3329	D3
2023	E5	3005	D3	3330	D2
2024	E5	3006	C4	3331	C3
2025	F8	3007	C4	3332	C2
2100	F8	3008	D3	3333	C3
2105	D8	3009	F7	3334	C3
2106	E9	3010	F7	3335	D2
2107	E9	3011	F7	3336	C3
2108	E9	3012	F7	3400	G8
2109	D9	3013	F7	3401	G8
2110	G9	3014	F8	3402	H7
2112	F9	3015	F7	3403	H7
2113	G9	3016	F8	3500	H3
2114	E9	3017	F7	3501	H3
2115	E9	3018	F7	3502	H3
2116	D7	3019	F8	3503	H2
2117	G9	3020	G7	3504	I2
2118	D8	3021	D3	3505	H2
2119	D8	3022	E4	3506	H3
2121	F9	3100	G8	3507	H3
2122	F9	3101	G9	3508	H3
2200	H5	3103	G9	3509	I3
2201	E6	3104	F9	3511	H2
2202	H5	3105	G8	3512	H7
2203	H4	3106	G9	3513	G7
2300	E3	3107	F9	3514	G7
2301	D3	3108	D8	3515	G7
2304	D3	3109	D8	3517	H3
2306	E3	3110	D8	3601	G6
2307	E3	3111	D8	3603	C3
2308	E4	3112	E9	3605	C8
2313	G2	3113	F8	6100	F9
2314	G2	3114	E8	6200	F5
2316	E2	3115	E8	6501	H7
2317	E2	3116	D8	6502	I3
2320	E3	3117	E6	6601	H8
2321	E2	3118	E5	6602	C9
2322	E2	3119	E5	7001	D4
2323	D3	3120	E6	7101	E8
2326	F4	3121	D8	7102	E6
2327	D9	3123	G9	7103	E5
2328	D9	3200	F4	7201	G5
2329	D9	3201	F4	7202	F6
2333	E2	3202	E6	7302	F3
2334	G2	3204	G5	7303	F4
2336	G2	3205	G2	7305	G2
2337	C9	3300	D3	7400	G7

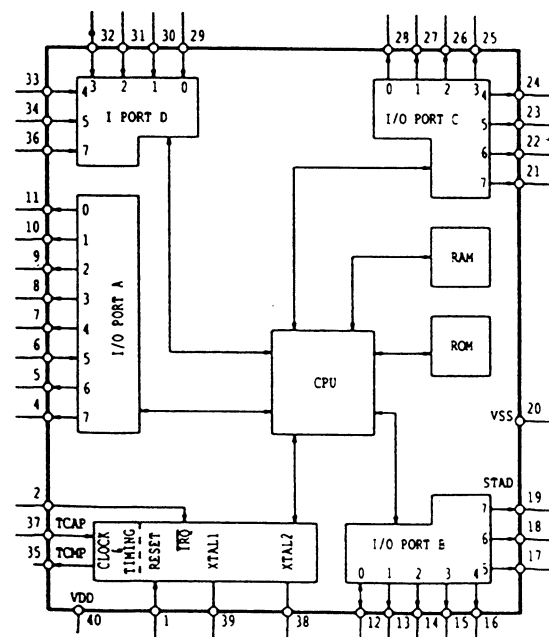
## 7302 SAA7341



## 7001 TDA8808T/C3



## 7201 MC68HC05C8

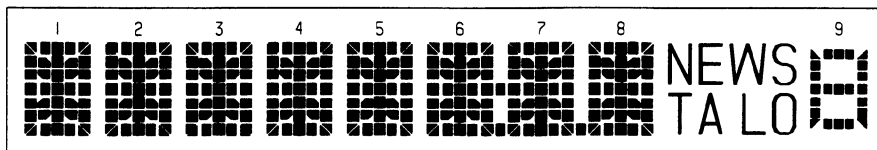




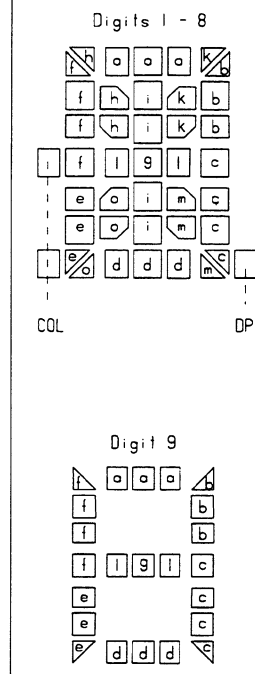
\* DELETED IN DC932/316  
# DELETED IN DC932/00, DC942/00

PART 7 : DETACHABLE FRONT PCB

LCD DISPLAY

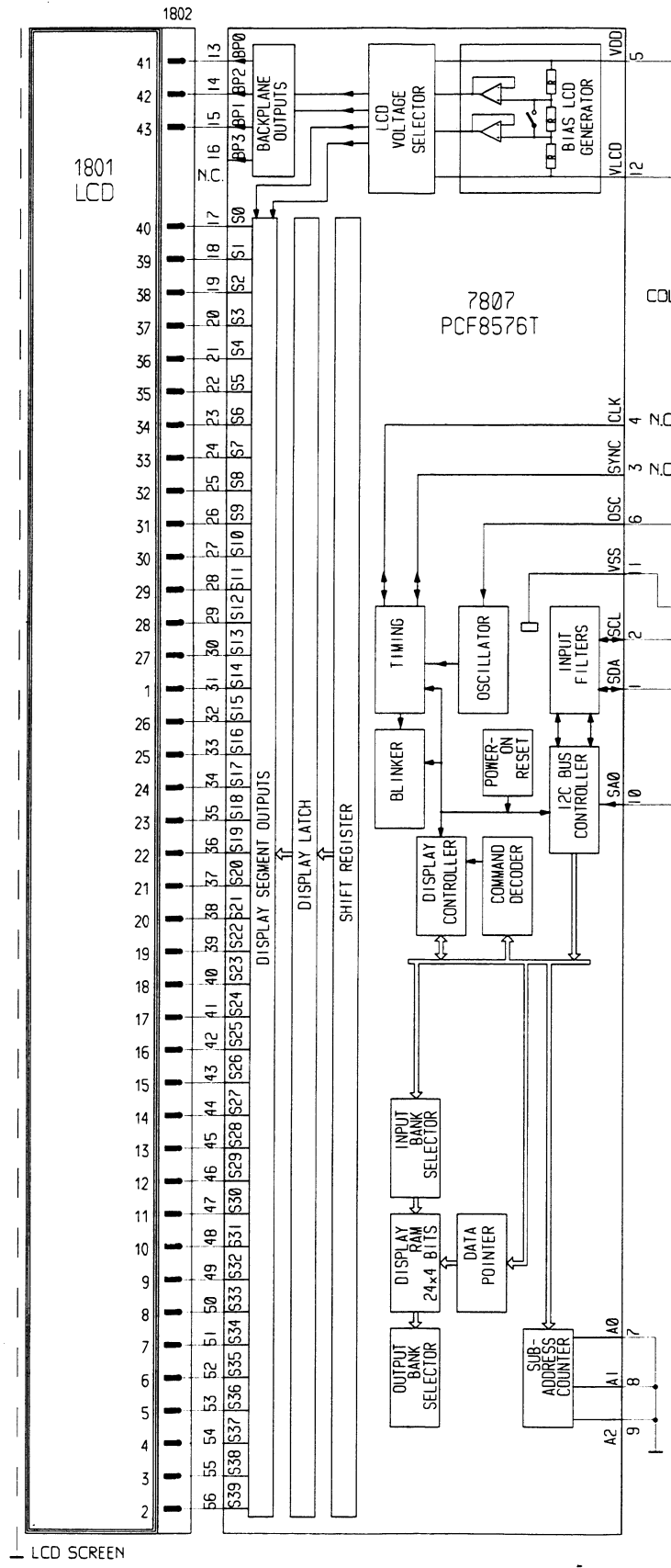


7807 DRIVER PINS	1801 LCD PINS	COM 1	COM 2	COM 3
31	1	1m	2m	
56	2	1o	1e	
55	3	1g	1i	1f
54	4	1d	1i	1h
53	5	1c	1k	1a
52	6	2o	2e	1b
51	7	2g	2i	2f
50	8	2d	2i	2h
49	9	2c	2k	2a
48	10	3o	3e	2b
47	11	3g	3i	3f
46	12	3d	3i	3h
45	13	3c	3k	3a
44	14	4o	4e	3b
43	15	4g	4i	4f
42	16	4d	4i	4h
41	17	4c	4k	4a
40	18	5o	5e	4b
39	19	5g	5i	5f
38	20	5d	5i	5h
37	21	5c	5k	5a
36	22	6o	6e	5b
35	23	6g	6i	6f
34	24	6d	6i	6h
33	25	6c	6k	6a
32	26	7m	COL	6b
30	27	7o	7e	
29	28	7g	7i	7f
28	29	7d	7i	7h
27	30	7c	7k	7a
26	31	8o	8e	7b
25	32	8g	8i	8f
24	33	8d	8i	8h
23	34	8c	8k	8a
22	35	9e	9f	8b
21	36	9d	9i, 9g	9a
20	37		9c	9b
19	38	DP1	8m	NEWS
18	39	5m	6m	TA
17	40	3m	4m	LO
13	41			COM 3
14	42		COM 2	
15	43	COM 1		



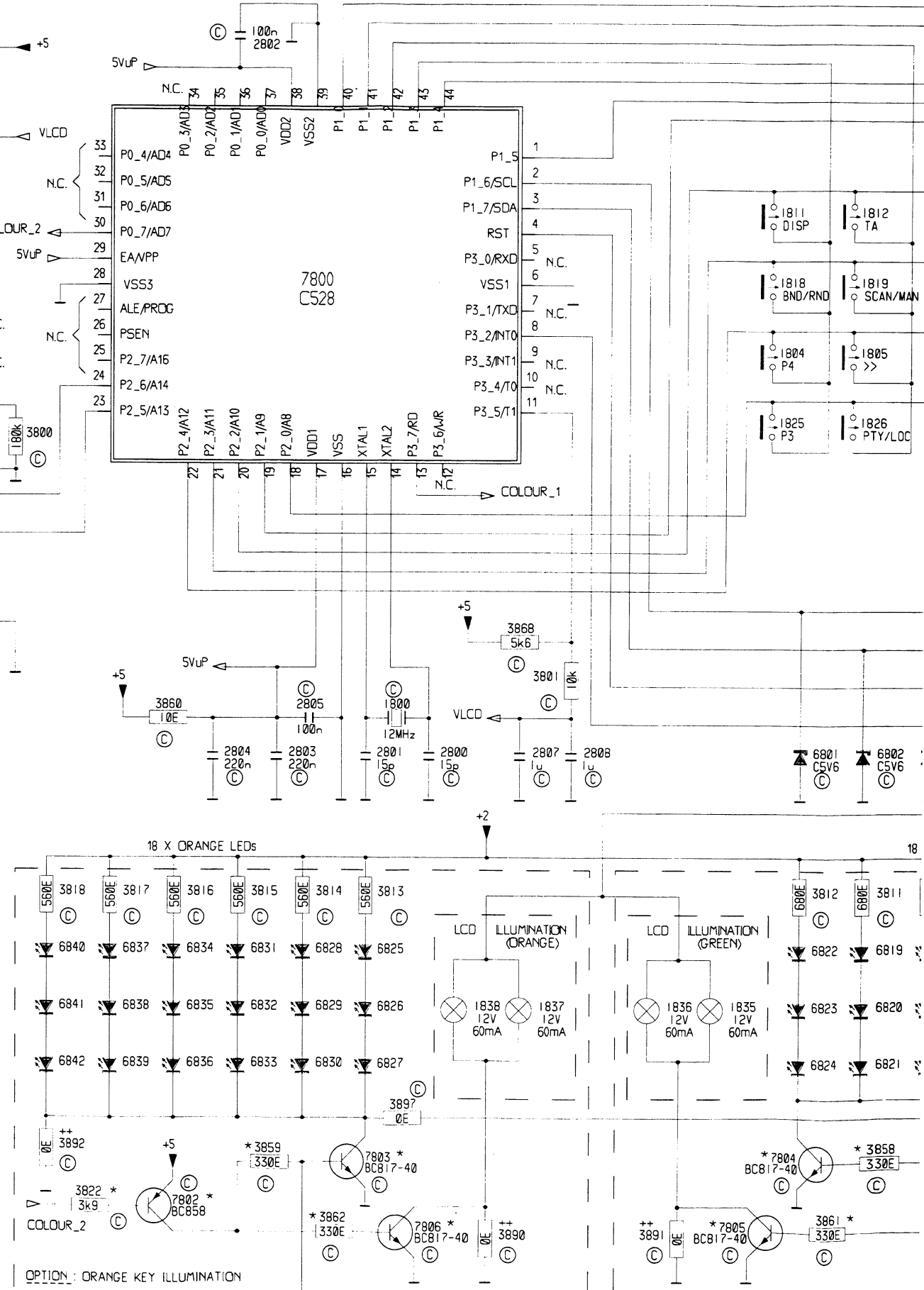
DUAL LIGHTING:  
FOR DC932/00, DC942/00

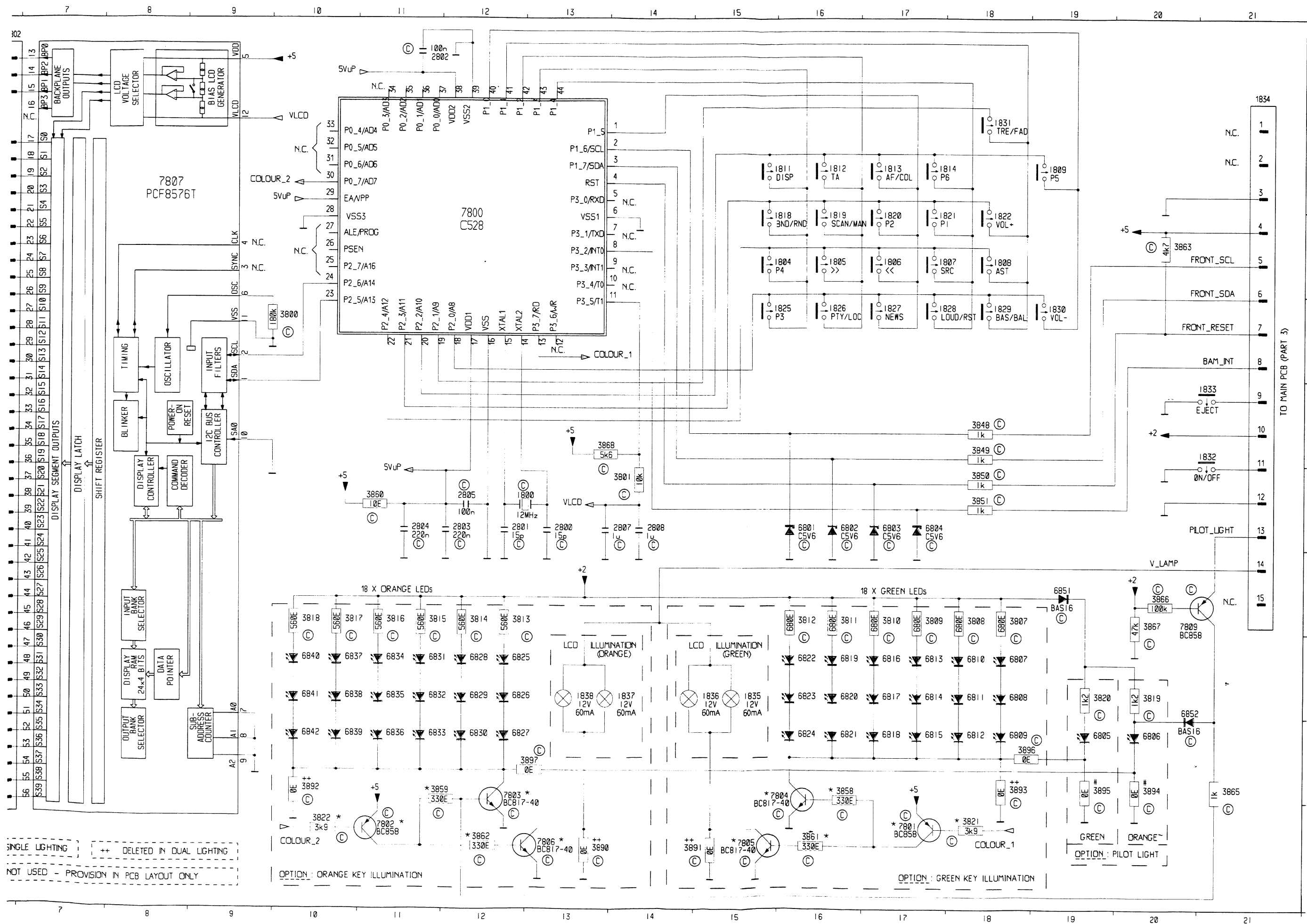
SINGLE LIGHTING:  
FOR DC932/318 ONLY  
(ORANGE KEY ILLUMINATION)



\* DELETED IN SINGLE LIGHTING    ++ DELETED IN DUAL LIGHTING

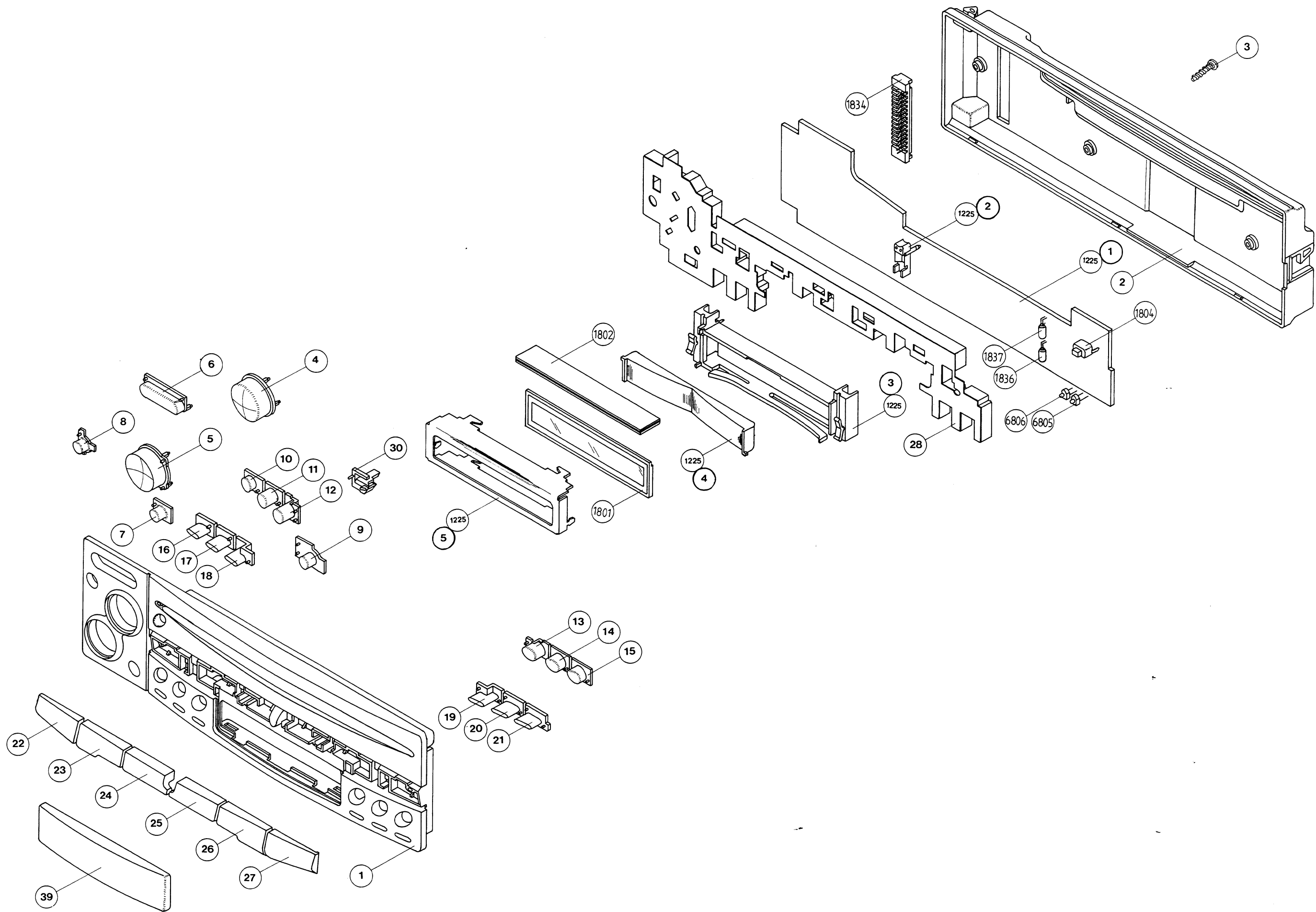
# ITEM NOT USED - PROVISION IN PCB LAYOUT ONLY





1801	A 6	6834	H11
1802	A 6	6835	H11
1803	A 6	6836	H11
1804	C16	6837	H10
1805	C16	6838	H10
1806	C17	6839	H10
1807	C18	6840	H10
1808	C18	6841	H10
1809	B19	6842	H10
1810	B16	6843	H10
1811	B16	6844	H10
1812	B16	6845	H10
1813	B17	6846	H10
1814	B18	6847	H10
1815	B18	6848	H10
1816	B18	6849	H10
1817	B18	6850	H10
1818	B18	6851	H10
1819	B18	6852	H10
1820	B18	6853	H10
1821	B18	6854	H10
1822	B18	6855	H10
1823	B18	6856	H10
1824	B18	6857	H10
1825	B18	6858	H10
1826	B18	6859	H10
1827	D17	6860	H10
1828	D18	6861	H10
1829	D18	6862	H10
1830	D18	6863	H10
1831	A18	6864	H10
1832	E21	6865	H10
1833	E21	6866	H10
1834	A21	6867	H10
1835	H15	6868	H10
1836	H15	6869	H10
1837	H14	6870	H10
1838	H13	6871	H10
2800	F12	6872	H10
2801	F12	6873	H10
2802	A11	6874	H10
2803	F12	6875	H10
2804	F11	6876	H10
2805	F12	6877	H10
2806	F14	6878	H10
2807	F14	6879	H10
2808	F14	6880	H10
2809	D10	6881	H10
2810	F14	6882	H10
2811	F14	6883	H10
2812	G18	6884	H10
2813	G18	6885	H10
2814	G17	6886	H10
2815	G17	6887	H10
2816	G16	6888	H10
2817	G16	6889	H10
2818	G16	6890	H10
2819	H20	6891	H10
2820	H19	6892	H10
2821	J18	6893	H10
2822	J18	6894	H10
2823	F18	6895	H10
2824	F18	6896	H10
2825	F18	6897	H10
2826	F18	6898	H10
2827	F18	6899	H10
2828	F18	6900	H10
2829	F18	6901	H10
2830	F18	6902	H10
2831	F18	6903	H10
2832	F18	6904	H10
2833	F18	6905	H10
2834	F18	6906	H10
2835	F18	6907	H10
2836	F18	6908	H10
2837	F18	6909	H10
2838	F18	6910	H10
2839	F18	6911	H10
2840	F18	6912	H10
2841	F18	6913	H10
2842	F18	6914	H10
2843	F18	6915	H10
2844	F18	6916	H10
2845	F18	6917	H10
2846	F18	6918	H10
2847	F18	6919	H10
2848	F18	6920	H10
2849	F18	6921	H10
2850	F18	6922	H10
2851	F18	6923	H10
2852	F18	6924	H10
2853	F18	6925	H10
2854	F18	6926	H10
2855	F18	6927	H10
2856	F18	6928	H10
2857	F18	6929	H10
2858	F18	6930	H10
2859	F18	6931	H10
2860	F18	6932	H10
2861	F18	6933	H10
2862	F18	6934	H10
2863	F18	6935	H10
2864	F18	6936	H10
2865	F18	6937	H10
2866	F18	6938	H10
2867	F18	6939	H10
2868	F18	6940	H10
2869	F18	6941	H10
2870	F18	6942	H10
2871	F18	6943	H10
2872	F18	6944	H10
2873	F18	6945	H10
2874	F18	6946	H10
2875	F18	6947	H10
2876	F18	6948	H10
2877	F18	6949	H10
2878	F18	6950	H10
2879	F18	6951	H10
2880	F18	6952	H10
2881	F18	6953	H10
2882	F18	6954	H10
2883	F18	6955	H10
2884	F18	6956	H10
2885	F18	6957	H10
2886	F18	6958	H10
2887	F18	6959	H10
2888	F18	6960	H10
2889	F18	6961	H10
2890	F18	6962	H10
2891	F18	6963	H10
2892	F18	6964	H10
2893	F18	6965	H10
2894	F18	6966	H10
2895	F18	6967	H10
2896	F18	6968	H10
2897	F18	6969	H10
2898	F18	6970	H10
2899	F18	6971	H10
2900	F18	6972	H10
2901	F18	6973	H10
2902	F18	6974	H10
2903	F18	6975	H10
2904	F18	6976	H10
2905	F18	6977	H10
2906	F18	6978	H10
2907	F18	6979	H10
2908	F18	6980	H10
2909	F18	6981	H10
2910	F18	6982	H10
2911	F18	6983	H10
2912	F18	6984	H10
2913	F18	6985	H10
2914	F18	6986	H10
2915	F18	6987	H10
2916	F18	6988	H10
2917	F18	6989	H10
2918	F18	6990	H10
2919	F18	6991	H10
2920	F18	6992	H10
2921	F18	6993	H10
2922	F18	6994	H10
2923	F18	6995	H10
2924	F18	6996	H10
2925	F18	6997	H10
2926	F18	6998	H10
2927	F18	6999	H10
2928	F18	7000	H10
2929	F18	7001	H10
2930	F18	7002	H10
2931	F18	7003	H10
2932	F18	7004	H10
2933	F18	7005	H10
2934	F18	7006	H10
2935	F18	7007	H10
2936	F18	7008	H10
2937	F18	7009	H10
2938	F18	7010	H10
2939	F18	7011	H10
2940	F18	7012	H10
2941	F18	7013	H10
2942	F18	7014	H10
2943	F18	7015	H10
2944	F18	7016	H10
2945	F18	7017	H10
2946	F18	7018	H10
2947	F18	7019	H10
2948	F18	7020	H10
2949	F18	7021	H10
2950	F18	7022	H10
2951	F18	7023	H10
2952	F18	7024	H10
2953	F18	7025	H10
2954	F18	7026	H10
2955	F18	7027	H10
2956	F18	7028	H10
2957	F18	7029	H10
2958	F18	7030	H10
2959	F18	7031	H10
2960	F18	7032	H10
2961	F18	7033	H10
2962	F18	7034	H10
2963	F18	7035	H10
2964	F18	7036	H10
2965	F18	7037	H10
2966	F18	7038	H10
2967	F18	7039	H10
2968	F18	7040	H10
2969	F18	7041	H10
2970	F18	7042	H10
2971	F18	7043	H10
2972	F18	7044	H10
2973	F18	7045	H10
2974	F18	7046	H10
2975	F18	7047	H10
2976	F18	7048	H10
2977	F18	7049	H10
2978	F18	7050	H10
2979	F18	7051	H10
2980	F18	7052	H10
2981	F18	7053	H10
2982	F18	7054	H10
2983	F18	7055	H10
2984	F18	7056	H10
2985	F18	7057	H10
2986	F18	7058	H10
2987	F18	7059	H10
2988	F18	7060	H10
2989	F18	7061	H10
2990	F18	7062	H10
2991	F18	7063	H10
2992	F18	7064	H10
2993	F18	7065	H10
2994	F18	7066	H10
2995	F18	7067	H10
2996	F18	7068	H10
2997	F18	7069	H10
2998	F18	7070	H10
2999	F18	7071	H10
3000	F18	7072	H10

EXPLODED VIEW-DETACHABLE FRONT





# LIST OF MECHANICAL PARTS

Only those parts of which the item number is stated below are considered Service parts.

## DETACHABLE FRONT

1	4822 459 50807	Cover front - 90DC942
1	4822 459 50805	Cover front - 90DC932
2	4822 459 50802	Cover back
4	4822 410 62886	Button volume/up
5	4822 410 62887	Button volume/down
6	4822 410 62888	Button on/off
7	4822 410 62889	Button bass/balance
8	4822 410 62891	Button treble/fad
9	4822 410 62933	Button eject
10	4822 410 62892	Button preset 1
11	4822 410 62893	Button preset 2
12	4822 410 62894	Button preset 3
13	4822 410 62895	Button preset 4
14	4822 410 62896	Button preset 5
15	4822 410 62897	Button preset 6
16	4822 410 62885	Button small 1
17	4822 410 62901	Button small 2
18	4822 410 62902	Button small 3
19	4822 410 62903	Button small 4
20	4822 410 62904	Button small 5
21	4822 410 62905	Button small 6
22	4822 410 62915	Button scan/man
23	4822 410 62935	Button band/random
24	4822 410 62906	Button up
25	4822 410 62907	Button down
26	4822 410 62934	Button SRC
27	4822 410 62908	Button AST/RPT
28	4822 466 10643	Foam button CD
39	4822 381 11443	Lens assy
1225-2	4822 256 30506	Support lamp T1
1225-3	4822 256 92111	Housing LCD
1225-5	4822 466 83052	Shield metal

## LIST OF SCREW

3	D2X8
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## MAIN SET

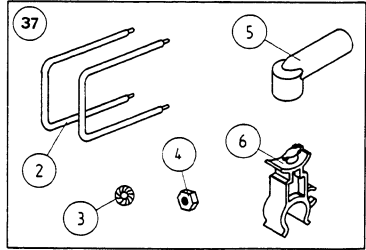
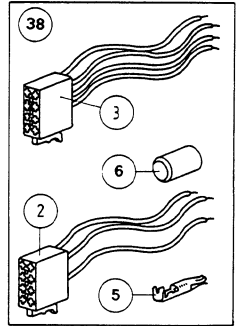
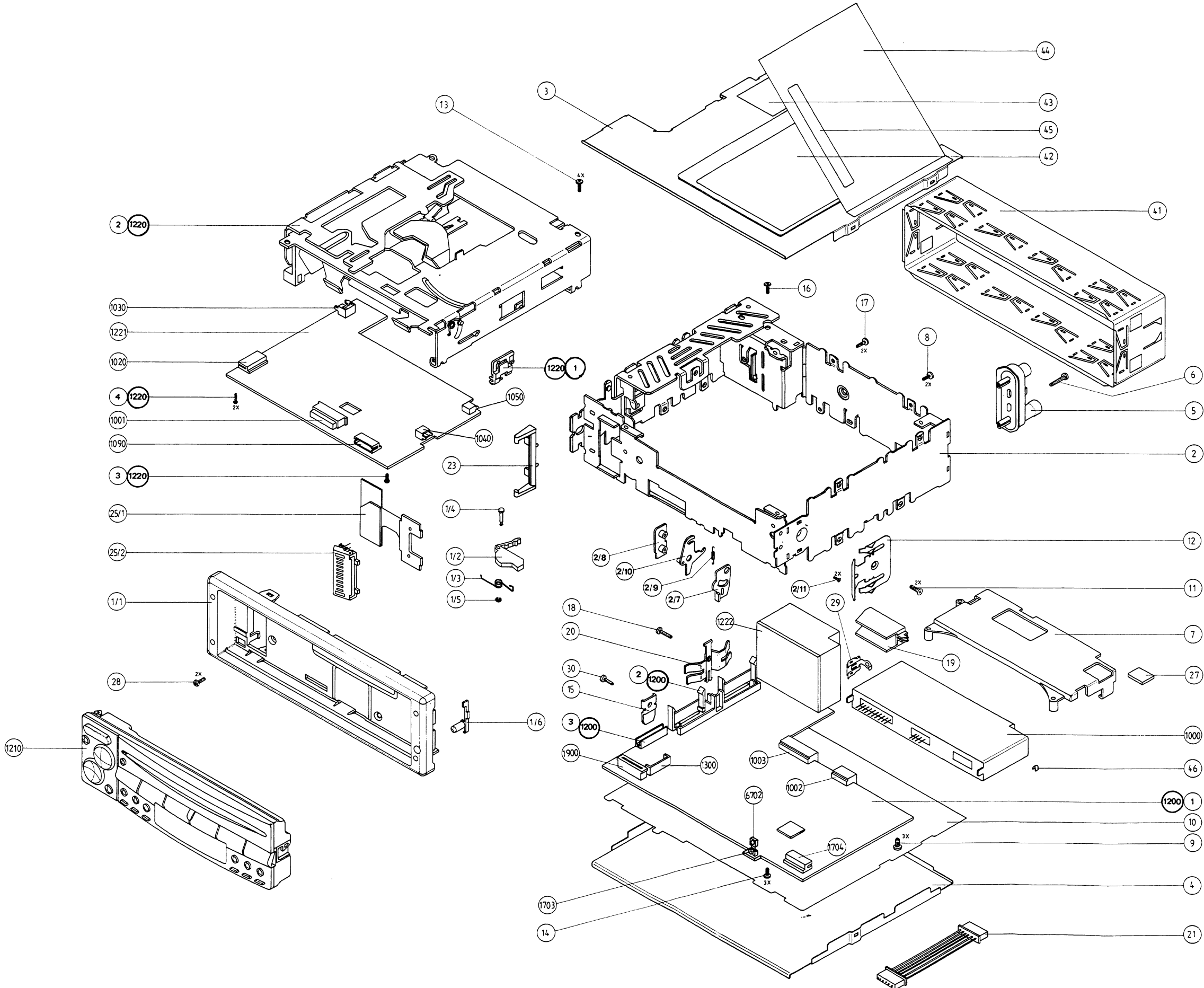
1/1	4822 459 50806	Plate ornamental - 90DC942
1/1	4822 459 50803	Plate ornamental - 90DC932
1/2	4822 404 21277	Ejector
1/3	4822 492 42684	Spring torsion
1/4	4822 535 93429	Spindle
1/6	4822 410 62884	Button release
2/7	4822 404 21278	Lever
2/8	4822 404 21281	Bracket bush
2/9	4822 492 33418	Spring tension
2/10	4822 404 21279	Lever
5	4822 267 31717	Bush aerial
12	4822 492 71046	Spring mounting
19	4822 423 41249	Protection CD changer
21	4822 321 62188	Connector assy
23	4822 417 11198	Pivot
25/1	4822 466 10655	Foil Flex
25/2	4822 265 41384	Connector
29	4822 492 71421	Leaf spring grounding
37-2	4822 404 20437	Bracket mounting
37-5	4822 267 31699	Plug aerial
37-6	4822 401 11512	Holder aerial adaptor
38-2	4822 321 61695	Cable adaptor, power
38-3	4822 321 61696	Cable adaptor 4 L.S.
38-6	4822 532 11092	Buffer mounting
41	4822 423 90186	Sleeve
46	4822 492 71426	Spring leaf
1210	4822 459 50801	Detachable front assy - 90DC942
1210	4822 459 50804	Detachable front assy - 90DC932
1220-2	4822 691 10366	Car loader
BOX	4822 600 70734	Box Detachable unit
IFU	4822 736 21877	DFU Multi-languages

## LIST OF SCREWS

6	M2.5X12	17	M2.5X6
8	M2.5X0	18	M2.5X6
9	D3X8	28	M2.5X6
11	M3X6	30	M2.5X6
13	M2.5X6	2/11	M2X4
14	M2.5X6	1220/3	M2.5X5
16	M2.5X6	1220/4	D2X8





EXPLODED VIEW-SET





DETACHABLE FRONT BOARD


MISCELLANEOUS		
1800	4822 242 81588	Cerchip Res 12MHz
1801	4822 130 91288	LCD
1802	4822 267 51286	Connector Zebra
1804	4822 276 13454	Tact Switch 50mA 12V
1805	4822 276 13454	Tact Switch 50mA 12V
1806	4822 276 13454	Tact Switch 50mA 12V
1807	4822 276 13454	Tact Switch 50mA 12V
1808	4822 276 13454	Tact Switch 50mA 12V
1809	4822 276 13454	Tact Switch 50mA 12V
1811	4822 276 13454	Tact Switch 50mA 12V
1812	4822 276 13454	Tact Switch 50mA 12V
1813	4822 276 13454	Tact Switch 50mA 12V
1814	4822 276 13454	Tact Switch 50mA 12V
1818	4822 276 13454	Tact Switch 50mA 12V
1819	4822 276 13454	Tact Switch 12VDC 50mA
1820	4822 276 13454	Tact Switch 12VDC 50mA
1821	4822 276 13454	Tact Switch 12VDC 50mA
1822	4822 276 13454	Tact Switch 12VDC 50mA
1825	4822 276 13454	Tact Switch 12VDC 50mA
1826	4822 276 13454	Tact Switch 12VDC 50mA
1827	4822 276 13454	Tact Switch 12VDC 50mA
1828	4822 276 13454	Tact Switch 12VDC 50mA
1829	4822 276 13454	Tact Switch 12VDC 50mA
1830	4822 276 13454	Tact Switch 12VDC 50mA
1831	4822 276 13454	Tact Switch 12VDC 50mA
1832	4822 276 13454	Tact Switch 12VDC 50mA
1833	4822 276 13454	Tact Switch 12VDC 50mA
1834	4822 265 41352	Detachable Conn. 15P
1835	4822 134 41158	Lamp Assy Green
1836	4822 134 41158	Lamp Assy Green
1837	4822 134 41157	Lamp Assy Orange
1838	4822 134 41157	Lamp Assy Orange


		
2800	15pF 5% NP0 0805	
2801	15pF 5% NP0 0805	
2802	0805 X7R 25V 100nF 10%	
2803	1206 X7R 25V 220nF 10%	
2804	1206 X7R 25V 220nF 10%	
2805	0805 X7R 25V 100nF 10%	
2807	1µF +80%-20% Y5V 1206	
2808	1µF +80%-20% Y5V 1206	

		
3800	0805 RC11 180k 5%	
3801	0805 RC11 10k 5%	
3807	1206 RC01 680Ω 5%	
3808	1206 RC01 680Ω 5%	

		
3809	1206 RC01 680Ω 5%	
3810	1206 RC01 680Ω 5%	
3811	1206 RC01 680Ω 5%	
3812	1206 RC01 680Ω 5%	
3813	1206 RC01 560Ω 5%	
3814	1206 RC01 560Ω 5%	
3815	1206 RC01 560Ω 5%	
3816	1206 RC01 560Ω 5%	
3817	1206 RC01 560Ω 5%	
3818	1206 RC01 560Ω 5%	
3819	1206 RC01 1k2 5%	
3820	1206 RC01 1k2 5%	
3821	0805 RC11 3k9 5%	
3822	0805 RC11 3k9 5%	
3848	0805 RC11 1k 5%	
3849	0805 RC11 1k 5%	
3850	0805 RC11 1k 5%	
3851	0805 RC11 1k 5%	
3858	0805 RC11 330Ω 5%	
3859	0805 RC11 330Ω 5%	
3860	0805 RC11 10Ω 5%	
3861	0805 RC11 330Ω 5%	
3862	0805 RC11 330Ω 5%	
3863	0805 RC11 4k7 5%	
3865	0805 RC11 47k 5%	
3866	0805 RC11 100k 5%	
3867	0805 RC11 47k 5%	
3868	0805 RC11 5k6 5%	
3896	1206 Jumper 0Ω	
3897	1206 Jumper 0Ω	

		
6801	4822 130 80125	BZX84-C5V6
6802	4822 130 80125	BZX84-C5V6
6803	4822 130 80125	BZX84-C5V6
6804	4822 130 80125	BZX84-C5V6
6805	4822 130 83161	TLUG2401
6806	4822 130 82989	TLH02400AS-12Z orange
6807	4822 130 83161	TLUG2401
6808	4822 130 83161	TLUG2401
6809	4822 130 83161	TLUG2401
6810	4822 130 83161	TLUG2401
6811	4822 130 83161	TLUG2401
6812	4822 130 83161	TLUG2401
6813	4822 130 83161	TLUG2401
6814	4822 130 83161	TLUG2401
6815	4822 130 83161	TLUG2401
6816	4822 130 83161	TLUG2401
6817	4822 130 83161	TLUG2401
6818	4822 130 83161	TLUG2401

		
6819	4822 130 83161	TLUG2401
6820	4822 130 83161	TLUG2401
6821	4822 130 83161	TLUG2401
6822	4822 130 83161	TLUG2401
6823	4822 130 83161	TLUG2401
6824	4822 130 83161	TLUG2401
6825	4822 130 82989	TLH02400AS-12Z orange
6826	4822 130 82989	TLH02400AS-12Z orange
6827	4822 130 82989	TLH02400AS-12Z orange
6828	4822 130 82989	TLH02400AS-12Z orange
6829	4822 130 82989	TLH02400AS-12Z orange
6830	4822 130 82989	TLH02400AS-12Z orange
6831	4822 130 82989	TLH02400AS-12Z orange
6832	4822 130 82989	TLH02400AS-12Z orange
6833	4822 130 82989	TLH02400AS-12Z orange
6834	4822 130 82989	TLH02400AS-12Z orange
6835	4822 130 82989	TLH02400AS-12Z orange
6836	4822 130 82989	TLH02400AS-12Z orange
6837	4822 130 82989	TLH02400AS-12Z orange
6838	4822 130 82989	TLH02400AS-12Z orange
6839	4822 130 82989	TLH02400AS-12Z orange
6840	4822 130 82989	TLH02400AS-12Z orange
6841	4822 130 82989	TLH02400AS-12Z orange
6842	4822 130 82989	TLH02400AS-12Z orange
6851	5322 130 31928	BAS16
6852	5322 130 31928	BAS16

		
7800	4822 209 32891	87C528
7801	5322 130 41983	BC858B
7802	5322 130 41983	BC858B
7803	4822 130 42615	BC817-40
7804	4822 130 42615	BC817-40
7805	4822 130 42615	BC817-40
7806	4822 130 42615	BC817-40
7807	5322 209 11129	PCF8576T
7809	5322 130 41983	BC858B

**Note : Service Code are not listed here for standard component, please refer to Components catalogue from Philips Consumer Service.**

# MAIN BOARD

## MISCELLANEOUS

11	4822 071 21003	Blade Fuse 10A-90DC942
11	4822 071 25002	Blade Fuse 5A-90DC932
1000	4822 214 52138	Tuner IC91 Module
1222	4822 290 81641	Connector Slide in-90DC942
1222	4822 290 61188	Connector Slide in-90DC932
1500	4822 242 80259	Crystal 4.332MHz
1700	4822 242 81606	Crystal 12MHz
1701	4822 242 81607	Crystal 4.194304MHz
1702	4822 242 81002	Cer Res 6MHz - 90DC942
1703	4822 256 30483	Connector Lamp
1901	4822 276 13461	Tact Switch 10mA 16V
1902	4822 253 30446	Fuse Chip 2A - 90DC942

## —||—

2000		22nf 10% X7R 0805
2001		4n7 10% X7R 0805
2002		1nF 10% X7R 0805
2307	4822 124 23282	Elcap 1μF 20% 50V
2308	4822 124 23282	Elcap 1μF 20% 50V
2400		1nF 10% X7R 0805
2401		470pF 5% NP0 0805
2404		1nF 10% X7R 0805
2500		330pF 5% NP0 0805
2501		560pF 5% NP0 0805
2502		1206 X7R 25V 220nF 10%
2503	4822 124 23504	Elcap 2.2μF 20% 50V
2504		47pF 5% NP0 0805
2505		82pF 5% NP0 0805
2507		NPO 63V 820pF 5%
2508	4822 124 23504	Elcap 2.2μF 20% 50V
2509	4822 124 23504	Elcap 2.2μF 20% 50V
2510		0805 X7R 25V 100nF 10%
2511		0805 X7R 25V 100nF 10%
2512		150pF 5% NP0 0805
2513		150pF 5% NP0 0805
2514		1206 X7R 25V 220nF 10%
2515		150pF 5% NP0 0805
2516		150pF 5% NP0 0805
2518		1nF 10% X7R 0805
2519		1n5 10% X7R 0805
2520		0805 X7R 63V 10nF 10%
2521	4822 124 80765	Elcap 4.7μF 20% 35V
2524		22nF 10% X7R 0805
2525		10pF 5% NP0 0805
2526		390pF 5% NP0 0805
2527		4n7 10% X7R 0805
2528		1nF 10% X7R 0805
2600	4822 124 23504	Elcap 2.2μF 20% 50V
2601	4822 124 23504	Elcap 2.2μF 20% 50V

## —||—

2602	4822 124 23504	Elcap 2.2μF 20% 50V - 90DC932
2603	4822 124 23504	Elcap 2.2μF 20% 50V - 90DC932
2604		4n7 10% X7R 0805
2605		4n7 10% X7R 0805
2606		4n7 10% X7R 0805
2607		4n7 10% X7R 0805
2608	4822 124 80499	Elcap 100μF 20% 16V
2610	4822 124 23281	Elcap 33μF 20% 16V
2650	4822 124 23504	Elcap 2.2μF 20% 50V - 90DC942
2651		4n7 10% X7R 0805 - 90DC942
2652	4822 124 23504	Elcap 2.2μF 20% 50V - 90DC942
2653		4n7 10% X7R 0805 - 90DC942
2655		0805 X7R 25V 100nF 10% - 90DC942
2656	4822 124 23308	Elcap 2200μF 20% 16V - 90DC932
2657	4822 124 80499	Elcap 100μF 20% 16V - 90DC942
2658	4822 124 80769	Elcap 2200μF 20% 16V - 90DC942
2658	4822 124 23308	Elcap 2200μF 20% 16V - 90DC932
2700	4822 124 41017	Elcap 10μF 16V
2701		0805 X7R 25V 100nF 10%
2702		0805 X7R 25V 100nF 10%
2703		470pF 5% NP0 0805
2704		0805 X7R 25V 100nF 10%
2705		18pF 5% NP0 0805
2706		56pF 5% NP0 0805
2707	4822 124 41017	Elcap 10μF 16V
2709		0805 X7R 25V 100nF 10%
2710		0805 X7R 25V 100nF 10%
2711		0805 X7R 25V 100nF 10%
2721		0805 X7R 25V 100nF 10%
2723		22pF 5% NP0 0805
2724		82pF 5% NP0 0805
2726		4n7 10% X7R 0805
2727		0805 X7R 25V 100nF 10% - 90DC942
2728		0805 X7R 25V 100nF 10% - 90DC942
2731		0805 X7R 25V 100nF 10%
2806	4822 124 41017	Elcap 10μF 16V - 90DC942
2807		1nF 10% X7R 0805 - 90DC942
2808	4822 124 23504	Elcap 2.2μF 20% 50V - 90DC942



2809	4822 124 22646	Elcap 47μF 20% 16V - 90DC942
2810		1nF 10% X7R0805-90DC942
2811	4822 124 23504	Elcap 2.2μF 20% 50V - 90DC942
2812		22nF 10% X7R 0805
2813	4822 124 80453	Elcap 100μF 20% 10V
2814		1206 X7R 25V 220nF 10%
2816		2n2 10% X7R 0805
2817		1206 X7R 25V 220nF 10%
2818		1206 X7R 63V 47nF 10%
2819		5n6 10% X7R 0805
2820	4822 124 22646	Elcap 47μF 20% 16V
2821		1206 X7R 25V 220nF 10%
2823		2n2 10% X7R 0805
2824		1206 X7R 25V 220nF 10%
2825		1206 X7R 63V 47nF 10%
2826		5n6 10% X7R 0805
2827		0805 X7R 63V 10nF 10%
2850	4822 124 41017	Elcap 10μF 16V
2851	4822 124 41017	Elcap 10μF 16V
2852	4822 124 41017	Elcap 10μF 16V
2853	4822 124 41017	Elcap 10μF 16V
2900		100pF 5% NP0 0805
2901		0805 X7R 25V 100nF 10%
2902	4822 124 80769	Elcap 2200μF 20% 16V - 90DC942
2902	4822 124 23308	Elcap 2200μF 20% 16V - 90DC932
2904	4822 124 80056	Elcap 47μF 20% 16V
2906		1206 X7R 25V 220nF 10%
2907		0805 X7R 25V 100nF 10%
2908	4822 124 41017	Elcap 10μF 16V
2909	4822 124 23282	Elcap 1μF 20% 50V
2911		0805 X7R 25V 100nF 10%
2912		1nF 10% X7R 0805
2913		0805 X7R 63V 10nF 10%
2914	4822 124 80766	Elcap 1000μF 20% 25V
2915	4822 124 80056	Elcap 47μF 20% 16V
2916	4822 124 80056	Elcap 47μF 20% 16V
2917	4822 124 80764	Elcap 10μF 20% 16V - 90DC942
2917	4822 124 23179	Elcap 10μF 20% 16V - 90DC932
2918	4822 124 80767	Elcap 470μF 20% 16V
2919		0805 X7R 25V 100nF 10%
2920	4822 124 41017	Elcap 10μF 16V
2921		22nF 10% X7R 0805
2928		0805 X7R 63V 10nF 10%
2929		0805 X7R 63V 10nF 10%
2930		22nF 10% X7R 0805
2933	4822 124 80056	Elcap 47μF 20% 16V



2935	22nF 10% X7R 0805
2936	0805 X7R 63V 10nF 10%
2937	0805 X7R 63V 10nF 10%
2938	1nF 10% X7R 0805



3000	0805 RC11 4Ω7 5%
3001	0805 RC11 4Ω7 5%
3002	0805 RC11 4Ω7 5%
3003	0805 RC11 22k 5%
3004	0805 RC11 100k 5%
3005	0805 RC11 1k 5%
3400	0805 RC11 4Ω7 5%
3402	0805 RC11 10k 5%
3405	0805 RC11 4Ω7 5%
3406	0805 RC11 10k 5%
3407	0805 RC11 10k 5%
3408	0805 RC11 33k 5%
3410	0805 RC11 10k 5%
3411	0805 RC11 10k 5%
3414	CRB R20 100k 5%
3500	0805 RC11 4Ω7 5%
3502	0805 RC11 2k2 5%
3503	0805 RC11 100k 5%
3504	0805 RC11 68k 5%
3505	0805 RC11 22k 5%
3506	0805 RC11 330k 5%
3507	CRB R20 22Ω 5%
3508	0805 RC11 18k 5%
3509	0805 RC11 39k 5%
3510	CRB R20 3k3 5%
3511	CRB R20 3k3 5%
3512	0805 RC11 10k 5%
3513	0805 RC11 39k 5%
3514	0805 RC11 10k 5%
3515	0805 RC11 39k 5%
3516	0805 RC11 10k 5%
3517	0805 RC11 39k 5%
3518	0805 RC11 39k 5%
3520	0805 RC11 22k 5%
3523	CRB R20 3k3 5%
3524	0805 RC11 560Ω 5%
3525	0805 RC11 10k 5%
3526	0805 RC11 68k 5%
3527	0805 RC11 10k 5%
3529	0805 RC11 220k 5%
3531	0805 RC11 100k 5%
3605	0805 RC11 4k7 5%
3606	0805 RC11 47k 5% - 90DC932
3608	0805 RC11 1k 5%

# MAIN BOARD



3609		0805 RC11 1k 5%
3610		0805 RC11 1k 5%
3611		0805 RC11 1k 5%
3614		0805 RC11 1k 5%
3615		0805 RC11 22k 5%
3616		0805 RC11 68k 5% - 90DC932
3618		0805 RC11 4Ω7 5%
3650		0805 RC11 1k 5%
3651		0805 RC11 1k 5%
3653		0805 RC11 10k 5%
3654	4822 116 40254	PTC 330R 16V 1%
3655		CRB R20 22k 5%
3661		CRB R20 6k8 5%
3662		0805 RC11 15k 5%
3700		0805 RC11 1k 5%
3701		0805 RC11 100Ω 5%
3702		0805 RC11 47k 5%
3705		0805 RC11 10k 5%
3706		0805 RC11 10k 5%
3707		0805 RC11 1k 5%
3708		0805 RC11 1k 5%
3709		0805 RC11 1k 5%
3710		0805 RC11 10k 5%
3711		0805 RC11 10k 5%
3722		0805 RC11 100k 5%
3723		CRB R20 330Ω 5%
3728		0805 RC11 2k2 5%
3729		0805 RC11 1M 5%
3730		0805 RC11 1k 5%
3731		0805 RC11 22Ω 5%
3734		0805 RC11 100Ω 5%
3735		0805 RC11 4Ω7 5%
3736		0805 RC11 4Ω7 5%
3737		0805 RC11 1k 5%
3738		0805 RC11 4Ω7 5%
3739		0805 RC11 4Ω7 5%
3740		0805 RC11 4Ω7 5%
3742		0805 RC11 1k 5%
3743		0805 RC11 1k 5%
3744		0805 RC11 1k 5%
3745		0805 RC11 1k 5%
3747		0805 RC11 10k 5%
3748		0805 RC11 15k 5%
3749		0805 RC11 6k8 5%
3750		0805 RC11 6k8 5%
3751		0805 RC11 2k2 5%
3752		0805 RC11 15k 5%
3754		0805 RC11 10k 5%
3755		0805 RC11 10k 5%
3756		0805 RC11 10k 5%
3758	4822 116 40221	PTC 8Ω2 20%
3759	4822 116 40221	PTC 8Ω2 20%



3801		0805 RC11 4k7 5% - 90DC942
3802		0805 RC11 2k2 5% - 90DC942
3803		0805 RC11 100Ω 5% - 90DC942
3804		0805 RC11 4k7 5% - 90DC942
3806		0805 RC11 39k 5% - 90DC942
3807		0805 RC11 47k 5% - 90DC942
3808		0805 RC11 15k 5% - 90DC942
3809		0805 RC11 4k7 5% - 90DC942
3810		0805 RC11 2k2 5% - 90DC942
3811		0805 RC11 100Ω 5% - 90DC942
3812		0805 RC11 39k 5% - 90DC942
3813		0805 RC11 47k 5% - 90DC942
3815		0805 RC11 4k7 5% - 90DC942
3816		0805 RC11 4Ω7 5%
3817		0805 RC11 10k 5%
3818		0805 RC11 47k 5%
3819		0805 RC11 2k2 5%
3820		0805 RC11 47k 5%
3821		0805 RC11 2k2 5%
3822		0805 RC11 1k 5%
3823		0805 RC11 1k 5%
3824		0805 RC11 33k 5%
3825		0805 RC11 2k2 5% - 90DC942
3826		0805 RC11 10k 5%
3827		CRB R20 10k 5%
3850		0805 RC11 10k 5%
3851		0805 RC11 10k 5%
3852		0805 RC11 10k 5%
3853		0805 RC11 10k 5%
3855		CRB R20 10Ω 5% - 90DC942
3856		0805 RC11 33k 5%
3857		0805 RC11 4Ω7 5%
3900		0805 RC11 1k 5%
3901		0805 RC11 1k 5%
3902		0805 RC11 100k 5%
3903		0805 RC11 4k7 5%
3904		CRB R20 1k 5%
3905		CRB R20 1k 5%
3906		CRB R20 1k 5%
3907		0805 RC11 10k 5%
3908		0805 RC11 10k 5%
3909		0805 RC11 39k 5%
3910		0805 RC11 220k 5%
3911		0805 RC11 220k 5%
3912		0805 RC11 2k2 5%
3913		0805 RC11 220k 5%
3914		0805 RC11 10k 5%
3915		0805 RC11 10k 5%
3916		0805 RC11 220k 5%
3917		0805 RC11 47k 5%
3918		0805 RC11 47k 5%
3919		0805 RC11 22k 5%



3920	CRB R20 100k 5%
3921	0805 RC11 220k 5%
3922	0805 RC11 100k 5%
3923	0805 RC11 100Ω 5%
3924	0805 RC11 47k 5%
3927	0805 RC11 100k 5%
3928	0805 RC11 47k 5%
3929	0805 RC11 100k 5%
3930	0805 RC11 33k 5%
3931	0805 RC11 100k 5%
3932	0805 RC11 10k 5%
3933	0805 RC11 47k 5%
3934	0805 RC11 4Ω7 5%
3947	0805 RC11 220k 5%
3948	0805 RC11 100k 5%
3949	0805 RC11 1k 5%
3950	0805 RC11 4k7 5%
3951	CRB R20 10Ω 5%
3952	0805 RC11 1k 5%
3955	0805 RC11 4Ω7 5%
3956	0805 RC11 470k 5%
3958	0805 RC11 47k 5%
3959	0805 RC11 100k 5%
3960	0805 RC11 1k 5%
3961	0805 RC11 100k 5%
3962	0805 RC11 4Ω7 5%
3963	0805 RC11 1k 5%
3964	0805 RC11 100k 5%



5700	4822 157 50961	Coil 22μH 10%
5701	4822 157 60122	Inductor 4.7μ7 10%
5702	4822 157 60122	Inductor 4.7μ7 10%
5900	4822 157 70935	Coil Assy - 90DC942
5900	4822 157 70839	Choke Coil 160μH - 90DC932



6501	5322 130 34337	BAV99
6502	5322 130 34337	BAV99
6702	4822 130 82996	LED RED
6703	4822 130 32904	BZV85-C5V6 - 90DC942
6704	4822 130 32904	BZV85-5V - 90DC942
6705	4822 130 80125	BZX84-5V6
6706	4822 130 80125	BZX84-5V6
6800	4822 130 30621	1N4148 - 90DC942
6801	4822 130 30621	1N4148
6900	4822 130 81624	1.5KE27
6901	5322 130 30684	1N4002GP



6902	4822 130 30621	1N4148
6905	4822 130 34499	BZX79-C20
6906	4822 130 80291	1N4002GP
6907	5322 130 30684	1N4002GP
6908	4822 130 30621	1N4148
6909	5322 130 34337	BAV99
6910	5322 130 30684	1N4002GP
6911	5322 130 30684	1N4002GP
6912	5322 130 30684	1N4002GP
6913	5322 130 30684	1N4002GP
6916	4822 130 34488	BZX79-C11
6917	5322 130 31928	BAS16
6919	5322 130 30684	1N4002GP



7400	4822 130 42705	BC847
7500	4822 209 31981	SAA6579T/V1
7501	4822 209 83159	LA2000
7502	4822 209 32742	TL074IN
7600	5322 209 14865	MC14066BCP - 90DC932
7601	4822 130 42705	BC847 - 90DC932
7602	4822 209 31132	TDA7374V
7603	4822 209 31132	TDA7374V - 90DC942
7604	5322 130 41983	BC858B
7605	4822 130 42705	BC847
7700	4822 209 32883	P89CE558
7703	5322 130 41983	BC858B
7704	4822 900 10479	ST24C16CB6 - DC942
7704	4822 900 10478	ST24C16CB6 - 90DC932
7706	5322 209 11461	HEF4521BT
7707	4822 209 32743	MSM6307GS - 90DC942
7800	4822 209 32745	TEA6320/V1
7801	4822 130 42353	BFS19 - 90DC942
7802	4822 130 42353	BFS19 - 90DC942
7803	4822 130 42705	BC847
7804	5322 130 41983	BC858B
7900	4822 130 40995	BD438
7901	4822 209 32866	L7805ABV
7902	5322 130 41983	BC858B
7903	4822 130 42705	BC847
7904	4822 130 40995	BD438
7905	4822 130 42705	BC847
7906	4822 130 41691	BC556B
7907	4822 130 42705	BC847
7908	4822 130 41691	BC556B
7909	4822 130 42705	BC847
7910	4822 209 33029	TDA3602/N3
7911	5322 130 41983	BC858B
7913	5322 130 41983	BC858B
7916	4822 130 40982	BD433

## MAIN BOARD



7918	4822 130 42705	BC847
7919	4822 130 40982	BD433
7921	4822 209 10305	HEF4044BT

**Note :** Service Code are not listed here for standard component, please refer to Components catalogue from Philips Consumer Service.

## CD BOARD

### MISCELLANEOUS

1200	4822 242 70831	Crystal 4.0MHz
1300	4822 242 81609	Crystal 16.9344MHz



2000		22NF 10% X7R 0805
2001		22nF 10% X7R 0805
2002		470pF 5% NP0 0805
2003		1nF 10% X7R 0805
2005	4822 124 80453	Elcap 100μF 20% 10V
2006		220pF 5% NP0 0805
2007		0805 X7R 25V 100nF 10%
2008		220pF 5% NP0 0805
2009		Polcap 63V 820nF 10%
2010		2n2 10% X7R 0805
2011		1206 X7R 63V 47nF 10%
2012		100pF 5% NP0 0805
2013		0805 X7R 63V 10nF 10%
2014		1nF 10% X7R 0805
2015		12nF 5% X7R 0805
2016		22nF 10% X7R 0805
2017		0805 X7R 25V 100nF 10%
2018		22nF 10% X7R 0805
2020		0805 X7R 25V 100nF 10%
2021		0805 X7R 25V 100nF 10%
2023		1206 X7R 25V 220nF 10%
2024		1206 X7R 25V 150nF 10%
2025		0805 X7R 25V 100nF 10%
2029		1206 X7R 25V 220nF 10%
2100		0805 X7R 25V 100nF 10%
2104	4822 124 80453	Elcap 100μF 20% 10V
2105		1206 X7R 63V 33nF 10%
2106		0805 X7R 25V 100nF 10%
2107		0805 X7R 25V 100nF 10%
2108		22nF 10% X7R 0805
2109		22nF 10% X7R 0805
2110		0805 X7R 25V 100nF 10%
2112		0805 X7R 63V 10nF 10%
2113		0805 X7R 25V 100nF 10%
2114		0805 X7R 25V 100nF 10%
2115		0805 X7R 25V 100nF 10%
2116		1206 NP0 63V 5n6 PM2
2117		0805 X7R 25V 100nF 10%
2118		1206 NP0 63V 4n7 PM2
2119		NPO 63V 910pF 2%
2121		0805 X7R 25V 100nF 10%
2122		1206 X7R 25V 220nF 10%
2123		1206 X7R 25V 220nF 10%
2200		0805 X7R 25V 100nF 10%
2201		1206 X7R 25V 220nF 10%
2202		27pF 5% NP0 0805



2203		27pF 5% NP0 0805
2204	4822 124 80453	Elcap 100μF 20% 10V
2300		2n2 10% X7R 0805
2301		47pF 5% NP0 0805
2304		0805 X7R 25V 100nF 10%
2305	4822 124 80453	Elcap 100μF 20% 10V
2306		22nF 10% X7R 0805
2307		220pF 5% nP0 0805
2308		0805 X7R 25V 100nF 10%
2309	4822 124 23582	Elcap 220μF 10V
2313		47pF 5% NP0 0805
2314		47pF 5% NP0 0805
2315		1206 X7R 25V 220nF 10%
2316		4n7 10% X7R 0805
2317		4n7 10% X7R 0805
2320		0805 X7R 25V 100nF 10%
2321		0805 X7R 25V 100nF 10%
2322		0805 X7R 25V 100nF 10%
2323		1206 X7R 25V 220nF 10%
2324	4822 124 80453	Elcap 100μF 20% 10V
2325	4822 124 80453	Elcap 100μF 20% 10V
2326		1206 X7R 25V 220nF 10%
2327		1206 X7R 25V 220nF 10%
2328		22nF 10% X7R 0805
2329		22nF 10% X7R 0805
2332	4822 124 23582	Elcap 220μF 10V
2333		0805 X7R 25V 100nF 10%
2334		0805 X7R 25V 100nF 10%
2336		22nF 10% X7R 0805
2337		0805 X7R 25V 100nF 10%
2338		0805 X7R 25V 100nF 10%
2339	4822 124 23282	Elcap 1μF 20% 50V
2340	4822 124 23282	Elcap 1μF 20% 50V
2341		2n2 10% X7R 0805
2342		2n2 10% X7R 0805
2344	4822 124 80453	Elcap 100μF 20% 10V
2345		22nF 10% X7R 0805
2346		470pF 5% NP0 0805
2347		470pF 5% NP0 0805
2348		100pF 5% NP0 0805
2349		100pF 5% NP0 0805
2400		0805 X7R 25V 100nF 10%
2500		0805 X7R 25V 100nF 10%
2501		0805 X7R 25V 100nF 10%
2601	4822 124 80453	Elcap 100μF 20% 10V
2602		22nF 10% X7R 0805
2603	4822 124 80453	Elcap 100μF 20% 10V
2605	4822 124 80453	Elcap 100μF 20% 10V
2606		22nF 10% X7R 0805



3000		0805 RC11 4k7 5%
3001		0805 RC11 100k 5%
3002		0805 RC11 22Ω 5%
3003		0805 RC11 22Ω 5%
3004		0805 RC11 100Ω 5%
3005		0805 RC12H 12k 1%
3006		0805 RC11 100Ω 5%
3007		0805 RC11 1k 5%
3008		0805 RC12H 24k 1%
3009		0805 RC12H 30k 1%
3010		0805 RC12H 2k2 1%
3011		0805 RC11 27k 5%
3012		0805 RC11 220k 5%
3013		0805 RC11 82k 5%
3014		0805 RC11 4Ω7 5%
3015		0805 RC11 10k 5%
3016		0805 RC11 22Ω 5%
3017		0805 RC12H 18k 1%
3018		0805 RC12H 12k 1%
3019		0805 RC11 22Ω 5%
3020		0805 RC12H 24k 1%
3021		0805 RC11 5k6 5%
3022		0805 RC11 22k 5%
3100		0805 RC11 4Ω7 5%
3101		1206 MPC01 5k6 1%
3102		MET FLM MRS25 2Ω20 1%
3103		1206 MPC01 5k6 1%
3104		0805 RC11 82Ω 5%
3105		1206 MPC01 5k6 1%
3106		0805 RC11 22Ω 5%
3107		1206 MPC01 5k6 1%
3108		0805 RC11 150k 5%
3109		0805 RC12H 18k 1%
3110		0805 RC12H 1k3 1%
3111		0805 RC11 10k 5%
3112		0805 RC11 220k 5%
3113		0805 RC11 22k 5%
3114		0805 RC12H 47k 1%
3115		0805 RC12H 18k 1%
3116		0805 RC11 22k 5%
3117		0805 RC11 47k 5%
3118		0805 RC11 2k2 5%
3119		0805 RC11 3k3 5%
3120		0805 RC11 10k 5%
3121		0805 RC11 10k 5%
3200		0805 RC11 22k 5%
3201		0805 RC11 22k 5%
3202		0805 RC11 47k 5%
3204		0805 RC11 1M 5%
3205		0805 RC11 4Ω7 5%
3300		0805 RC11 2k2 5%
3301		0805 RC11 22k 5%



# CD BOARD



3302	0805 RC11 22k 5%
3303	0805 RC11 4Ω7 5%
3304	0805 RC11 2k2 5%
3305	0805 RC11 4Ω7 5%
3306	1206 Jumper 0Ω
3311	0805 RC11 1M 5%
3312	0805 RC11 47k 5%
3313	0805 RC11 1k8 5%
3314	0805 RC11 1k8 5%
3319	0805 RC11 22Ω 5%
3320	0805 RC11 47k 5%
3323	0805 RC11 100k 5%
3325	0805 RC11 22Ω 5%
3326	0805 RC11 22Ω 5%
3327	0805 RC11 1k 5%
3328	0805 RC11 1k 5%
3329	0805 RC12H 30k 1%
3330	0805 RC12H 30k 1%
3331	0805 RC12H 30k 1%
3332	0805 RC12H 30k 1%
3333	0805 RC11 10k 5%
3334	0805 RC11 100k 5%
3335	0805 RC11 100k 5%
3336	0805 RC11 47k 5%
3400	0805 RC11 150k 5%
3401	0805 RC12H 5k6 1%
3402	0805 RC12H 6k8 1%
3403	0805 RC12H 1k 1%
3404	4822 116 30426 NTC 4k7 3% 0.1W
3500	0805 RC11 4k7 5%
3501	0805 RC11 1k 5%
3502	0805 RC11 4k7 5%
3503	1206 Jumper 0Ω
3504	0805 RC11 22Ω 5%
3505	0805 RC11 22Ω 5%
3506	0805 RC11 4k7 5%
3507	0805 RC11 4k7 5%
3508	0805 RC11 2k2 5%
3509	0805 RC11 5k6 5%
3511	0805 RC11 3Ω3 5%
3512	0805 RC11 10k 5%
3513	0805 RC11 10k 5%
3514	0805 RC11 330k 5%
3515	0805 RC11 330k 5%
3517	0805 RC11 47Ω 5%
3601	0805 RC11 3k3 5%
3603	0805 RC11 4Ω7 5%
3605	0805 RC11 3k3 5%



6100	5322 130 31928	BAS16
6200	5322 130 31928	BAS16
6501	5322 130 34337	BAV99
6502	5322 130 34337	BAV99
6601	5322 130 33671	BZX84-C6V2
6602	5322 130 80255	BZX84-C8V2



7000	4822 209 30146	L2722
7001	4822 209 73234	TDA8808T/C3
7003	4822 130 44257	BC547
7100	4822 209 62059	TCA0372DP1
7101	4822 209 31973	TDA8809T/C2/S1/13
7102	4822 130 42705	BC847
7103	5322 130 41983	BC858B
7201	4822 209 32889	MC68HC05C8CFB
7202	5322 209 14481	HEF4053BT
7302	4822 209 30388	SAA7341GP
7303	4822 209 32892	MSM5165ALP-85GS-K
7304	4822 209 30146	L2722
7305	5322 130 41983	BC858B
7306	4822 209 83163	LM833N
7400	4822 209 32894	LM258D
7500	4822 209 30146	L2722

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